2020 Annual Vapor Intrusion Mitigation Status Report

Pacific Food Systems, Inc. North Building 5815 Fourth Avenue South, Seattle, Washington

Natus Medical Building 5900 First Avenue South, Seattle, Washington

Agreed Order No. DE10402

February 12, 2021

Prepared for

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Vapor Intrusion Mitigation Status Report Pacific Foods System, Inc and Natus Medical Building Seattle, Washington

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LIST OF ABBREVIATIONS AND ACRONYMS

Agreed Order	Agreed Order No. DE 5348
Capital	Capital Industries, Inc.
CEF	cancer exceedance factors
COC	
Ecology	
Farallon	Farallon Consulting, LLC
HVOC	halogenated volatile organic compound
IOW	inches of water
IPIMAL	Inhalation Pathway Interim Measures Action Limit
LAI	Landau Associates, Inc.
μg/m³	micrograms per cubic meter
Natus	Natus Medical Building
NCEF	non-cancer exceedance factor
PCE	tetrachloroethene
PFE	pressure field extension
PFS-N	Pacific Food Systems, Inc. North Building
PSC	Philip Services Corporation
SCFM	standard cubic feet per minute
Site	Capital property
SSDS	subslab depressurization system
TCE	trichloroethene
VI	vapor intrusion
VIRL	vapor intrusion remediation levels
VOC	volatile organic compound
West 4 th Group	West of 4 th Group

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1.0 INTRODUCTION

Landau Associates, Inc. (LAI) has prepared this 2020 Annual Vapor Intrusion Mitigation Status Report on behalf of Capital Industries, Inc. (Capital) to provide an update on ongoing vapor intrusion (VI) mitigation measures, which include subslab depressurization systems (SSDSs) at the Pacific Food Systems, Inc. North Building located at 5815 4th Avenue South in Seattle, Washington (PFS-N) and the Natus Medical Building (former Olympic Medical Building) located at 5900 1st Avenue South in Seattle, Washington (Natus), which operated during the 2020 period. The general site location is shown on Figure 1 and the locations of PFS-N and Natus relative to the Capital property are shown on Figure 2.

Mitigation of VI from volatile constituents of concern (COCs) at PFS-N and Natus is required by the Washington State Department of Ecology (Ecology) in accordance with Exhibits B and D of Agreed Order No. DE 5348 entered into by Ecology and Capital on January 24, 2008 (Agreed Order) and with the *Revised Vapor Intrusion Assessment, Monitoring, and Mitigation Plan*, prepared by Farallon Consulting, L.L.C. (Farallon 2015a) under Agreed Order No. DE 10402 entered into by Ecology and the West of 4th Group (West 4th Group).

1.1 Purpose of Report

The purpose of this report is to provide a summary of the performance and monitoring results for the VI mitigation measures and details relating to the SSDS's ongoing operations at the PFS-N and Natus buildings in the 2020 period.

1.2 Report Organization

The report is organized as follows:

- **Section 1 Introduction**: Presents the report's purpose
- **Section 2 Site Description and Background**: Provides a description of the Capital Area of Investigation and a summary of the PFS-N and Natus buildings backgrounds
- Section 3 VI Mitigation Measures: Provides reference details of SSDS's installation and operations
- **Section 4 Inspection, Monitoring, and Maintenance Procedures**: Discusses the procedures used for SSDS's inspection, monitoring, and maintenance
- Section 5 Inspection, Monitoring, and Maintenance Results: Discusses the results from the SSDS's inspection, monitoring, and maintenance activities conducted at the PFS-N and Natus buildings
- **Section 6 Conclusions**: Presents LAI's conclusions regarding the SSDS's monitoring and performance air sampling results for the PFS-N and Natus buildings
- Section 7 Planned Work: Discusses work planned for the 2021
- Section 8 References: Provides a list of the documents used in preparation of this report.

2.0 SITE DESCRIPTION AND BACKGROUND

This section provides a description of the Capital Area of Investigation within which the PFS-N and Natus buildings are located and a summary of each building's background, including a discussion of the basis for each VI mitigation plan and SSDSs operation.

2.1 Site Description

The Capital property (Site) is located at 5801 Third Avenue South between South Mead Street to the north and South Fidalgo Street to the south, and between Fourth Avenue South to the east and First Avenue South to the west in Section 39, Township 24 South, Range 4 East in Seattle, King County, Washington (Figure 2). Capital is a source of halogenated volatile organic compounds (HVOCs) in the subsurface with impacted groundwater extending downgradient from the property. Capital is part of the West of 4th remediation site. The Capital Area of Investigation is defined as the area south of South Mead Street, east of 1st Avenue South, north of South Front Street, and west of 4th Avenue South, and includes the property on the northwest corner of 4th Avenue South and South Mead Street (Farallon 2009b) (Figure 2). The Capital Area of Investigation is within Seattle city limits in King County, Washington (King County) in an area zoned for industrial light manufacturing. Properties within the Capital Area of Investigation include a mixture of light industrial, commercial, and residential properties.

The PFS-N Building is located adjacent to the east end of Capital Plant 4 (Figure 2), and is used by Pacific Food Systems, Inc. for warehouse storage and equipment maintenance.

The Natus Medical Building is located within the Capital Area of Investigation, south (downgradient) of Capital Plant 2 (Figure 2) and was used by Natus Medical Inc. for the distribution and manufacture of medical equipment. The Natus Medical Building has been referred to as the Olympic Medical Building in prior Site documents. Natus Medical, who was a tenant, vacated the building between October and December 2020. The building is owned by CenterPoint Properties.

2.2 PFS-N Building Background

According to prior Site documents prepared by others, the volatile HVOCs tetrachloroethene (PCE) and trichloroethene (TCE) were detected in soil gas, at concentrations exceeding the screening levels used to evaluate VI risk (75 micrograms per cubic meter [μ g/m³] and 3.9 μ g/m³, respectively), in two subslab soil gas samples collected at the PFS-N Building in April 2011. The standards used to evaluate VI risk were set forth in the following documents:

- Revised Inhalation Pathway Interim Measures Work Plan prepared by Philip Services Corporation (PSC 2002)
- Draft Interim Vapor Intrusion Plan prepared by Arrow Environmental et al. (Arrow Environmental 2007), which is Exhibit D of the Agreed Order

 Updated Air and Groundwater Inhalation Pathway Interim Measures Action Levels (IPIMALs)/ Vapor Intrusion Remediation Levels (VIRLs) for Residential and Commercial Scenarios for the Georgetown Site prepared by Pioneer Technologies Corporation (Pioneer 2012).

During the initial VI investigation, screening levels for soil gas were based on historical Ecology guidance using an attenuation factor from soil gas to indoor air of 0.1; Ecology guidance has been updated and current guidance uses an attenuation factor of 0.03. This report will use the updated guidance to evaluate subslab soil gas samples from 2020; see Table 1 for updated screening levels.

The initial subslab sample results indicated the potential for VI into the PFS-N Building and warranted indoor air analysis to further evaluate whether a VI risk was present (Farallon 2017). The results from the assessment of indoor and outdoor ambient air, conducted between 2012 and 2014, indicated that a source of volatile COCs in the subsurface was potentially contributing to a VI condition for the PFS-N Building.

Tier 4 mitigation measures were implemented in 2015, which consisted of a subslab depressurization system (SSDS). Adjustments were made to optimize and confirm the extent of the negative pressure field exerted by the mitigation system (extension of the discharge stack, and additional differential pressure monitoring points) in 2017 and 2018. Despite implementation and optimization of the mitigation system, results from indoor air sampling events have remained relatively consistent indicating a background source, not VI, is the cause of VOCs in indoor air at PFS-N.

VI mitigation design specifications for PFS-N Building were developed in accordance with the *Vapor Intrusion Mitigation Design Plan* (Farallon 2014b). The need for VI mitigation at the PFS-N Building was based on results from Farallon's *Tier 3 Vapor Intrusion Assessment* (Farallon 2014a, b). The As-built plans of the SSDS installed and in operation at PFS-N Building are contained in Appendix A.

2.3 Natus Medical (Former Olympic Medical) Building Background

The Natus Medical Building, located at 5900 1st Avenue South, is downgradient of the Capital property. According to prior Site documents prepared by others (Farallon 2009a), Phillips Services Corporation (PSC) initially conducted a Tier 3 VI assessment at the Natus Medical (Former Olympic Medical) Building; subsequently, Capital was identified as the lead business responsible for VI mitigation.

The Tier 3 VI assessment was conducted in 2005 and included sampling indoor air to determine whether commercial indoor air cancer exceedance factors (CEFs) and non-cancer exceedance factors (NCEFs) exceeded their respective ratio benchmarks. The warehouse and manufacturing area results exceeded CEFs and NCEFs in the Natus Medical (Former Olympic Medical) Building, and a VI mitigation system was proposed by PSC for those areas based on the concentrations of TCE detected in indoor air (Farallon 2009a). Subsequent additional indoor air sampling by GeoEngineers Inc. in 2006 confirmed exceedances of TCE Indoor Pathway Interim Measures Action Levels (IPIMALs) in indoor air

within the warehouse area. In January of 2009, Farallon implemented mitigation in the form of a SSDS within the Natus Building (Farallon 2009a). The VI mitigation system was designed according to specifications defined in the *Vapor Intrusion Mitigation Work Plan, Olympic Medical Facility, Seattle, Washington* (Farallon 2008). The As-built plans of the SSDS installed and in operation at Natus Medical Building are contained in Appendix A.

3.0 VAPOR INTUSION MITIGATION MEASURES

SSDSs in the PFS-N and Natus buildings were designed in accordance with the specifications defined in each facility's VI mitigation work plan or VI mitigation design plan, and ASTM International 2121-13. Installation of the SSDS in the PFS-N Building was completed in March 2015 and installation of the Natus SSDS took place in January 2009. As-built schematics for the SSDSs installed and in operation at the Natus and PFS-N buildings are provided in Appendix A.

The basis for the SSDS design, installation details, inspection, monitoring, and maintenance procedures are discussed in detail for the Natus Building in the following:

- *Vapor Intrusion Mitigation Report*, Olympic Medical Facility, prepared by Farallon, September 10, 2009 (Farallon 2009d)
- *Vapor Intrusion, Inspection, Monitoring, and Maintenance Work Plan, Olympic Medical,* prepared by Farallon, November 2, 2009 (Farallon 2009c).

The basis for the SSDS design, installation details, inspection, monitoring, and maintenance procedures are discussed in detail for the PFS-N Building in the following:

- Vapor Intrusion, Inspection, Monitoring, and Maintenance Work Plan, Pacific Seafoods North Building (Farallon 2015b)
- Vapor Intrusion Mitigation Measures Status Report, Pacific Food Systems, Inc. North Building (Farallon 2017).

4.0 INSPECTION, MONITORING, AND MAINTENANCE PROCEDURES

This section presents the inspection and monitoring procedures conducted at the Natus and PFS-N buildings during the 2020 period. The basis for the SSDS design, installation details, inspection, monitoring, and maintenance procedures are discussed in detail for the Natus and PFS-N buildings in the Site documents referenced in Section 3.

4.1 Inspections and Monitoring

Periodic inspection and monitoring is conducted to confirm that each building's SSDS is operating effectively. Inspection and monitoring of the SSDSs includes the following:

- General system component inspection
- Negative pressure field extension (PFE) monitoring
- Reviewing the onsite SSDS onsite operations documentation maintained by the trained tenant contact (PFS-N)
- Periodic air quality monitoring.

4.1.1 Tenant Inspections

Inspections by each of the building tenants are conducted monthly, at a minimum, to ensure that the SSDSs are operating properly.

Each building tenant contacts the designated consultant and/or Capital personnel if the SSDSs are not operating properly. Contact information for Pacific Food Systems, Inc., Natus Medical Inc. (2020), Capital, and LAI is provided below. Natus Medical vacated their building in late 2020 and Capital is actively working with the property owner to designate a new contact for that building.

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Natus Medical Building

Mr. Carlos Quintanilla 5900 First Avenue South Seattle, Washington 98108 (206) 268-5166

Capital Industries, Inc.

Mr. Matt Loftis, Facilities and Environmental Manager 5801 Third Avenue South Seattle, Washington 98108 (206) 762-8585

Landau Associates, Inc.

Mr. David Johnson, Project Engineer, or Ms. Jennifer Wynkoop, Project Principal 2107 South C Street Tacoma, Washington 98402 (253) 926-2493

4.1.2 Annual Inspections

Annual inspections are conducted to observe and document the condition of each SSDS and to record changes to each building and surrounding area that could affect the performance of each SSDS. The annual inspection consists of observing and documenting the condition of the components for each SSDS, as well as any structural changes or modifications to each building, and adjacent buildings or structures, and recording each SSDS's current pressure gauge measurements. Previously documented pressure gauge measurements are used for comparison during the inspections. Photographs are taken during the inspection, as necessary, to document any deterioration of materials (e.g., cracks in piping, mounting damage) or other pertinent changes in the condition of each SSDS, each building structure, or other factors that could impact each system's operation or effectiveness.

4.1.3 Pressure Field Extension Monitoring

Pressure Field Extension (PFE) monitoring is conducted at each building on a biannual basis (typically in March and September) to measure the pressure differential across each building slab while the SSDS is operating. The results from PFE monitoring are used to confirm that the negative pressure field extends across the designated mitigation area.

Five permanent subslab monitoring ports were installed in the building slab at the PFS-N Building for PFE monitoring. The subslab monitoring ports are flush-mounted to the building slab, and have a tamper-resistant cap. The subslab monitoring ports are used for PFE monitoring to verify the negative pressure field extends across the slab under the entire building. A negative pressure of 0.025 inches of water (IOW) column or more at each of the subslab monitoring ports is more than sufficient to demonstrate depressurization. The tamper-resistant cap secures the subslab monitoring port closed between PFE monitoring events to maintain the integrity of the depressurization applied by the SSDS. The location and details of the subslab monitoring ports are shown on Sheet Nos. 3 and 4 in Appendix A.

There are seven manometer pressure gauges at the Natus Building located at each SSDS extraction sump that are currently used for ongoing PFE monitoring. The pressure readings of each extraction sump location should be within a 25 percent reading of the currently applied SSDS overall system vacuum, which has historically been between 5-15 IOW vacuum.

4.1.4 Air Quality Monitoring

Air quality monitoring is performed at the Natus and PFS-N buildings to provide air quality data that can be:

- Directly compared with previous VI Assessment data to evaluate the reduction in volatile COCs due to operation of the SSDSs;
- Used to adjust SSDSs operation parameters, if needed (Farallon 2015a); and
- Used to evaluate whether further action is necessary to protect human health.

Air quality monitoring is typically conducted semiannually in accordance with the VIIMM Work Plan (Farallon 2015b). Air samples collected during this reporting period were collected at the approximate sampling locations used during previous investigations/sampling events using 6-liter Summa canisters with flow controllers set to collect a sample over an 8-hour duration (see Figures 3 and 4). The indoor and outdoor air samples were analyzed for volatile COCs by U.S. Environmental Protection Agency Method TO-15 Selected Ion Monitoring. All sampling was performed in accordance with the standard operating procedures established during completion of the Tier 3 VI Assessments (Farallon 2013) and the VIAMM Plan (Farallon 2015a).

4.2 System Evaluation and Optimization

Results from the air quality, PFE monitoring, groundwater monitoring, and/or annual inspections are evaluated to determine whether modifications to each SSDS are necessary. The SSDSs are reevaluated or modified to meet performance standards as warranted based on inspection and monitoring results. The following criteria are used to determine whether re-evaluation of each SSDS is warranted:

- Inspection results indicate a significant structural change in each building (e.g., remodeling that could introduce additional pathways for vapor intrusion);
- Inspection indicates the system is not meeting performance standards;
- Air quality monitoring results indicate an indoor air IPIMAL exceedance; and/or
- Groundwater sampling analytical results indicate a minimum tenfold increase in cumulative VI risk/hazard in the vicinity of each building, as defined in the VIAMM Plan (Farallon 2015a).

4.3 Subslab Depressurization System Maintenance

SSDS maintenance will be performed as needed based on conditions observed during system monitoring and/or optimization visits. Typical target maintenance items are described below.

The SSDSs components that may require maintenance include the exhaust blower, the pressure gauge, and piping. The exhaust blower is not amenable to periodic maintenance and is relatively easy to replace. Therefore, the blower will be operated until excessive noise, vibration, or significantly reduced pressure-gauge readings are noted, at which point the blower will be repaired or replaced.

An operational failure of the blower would be indicated by the pressure gauge, which is checked during monthly tenant inspections, annual inspections, and/or biannual monitoring. Pressure gauges may fail or become less accurate after prolonged use. The SSDS's pressure measurements collected during annual or biannual inspections and will be compared to the SSDSs pressure gauge readings. The SSDS's pressure gauge will be replaced when a measured reading deviates from the monitored SSDS's pressure by more than 25 percent. If pressure gauge failure is confirmed, a replacement pressure gauge will be installed and tested. Replacement of cracked or otherwise damaged system piping observed during annual inspections or identified by the building tenant may be required on an as needed basis. Ongoing regular SSDSs maintenance will be performed as needed without direct coordination or approval with Ecology. Proposed significant modifications to the SSDSs will be presented to Ecology for approval prior to proceeding with the work.

5.0 ANNUAL INSPECTION, MONITORING, AND MAINATENANCE RESULTS

The Natus SSDS start-up occurred in January 2009 and the PFS-N SSDS startup occurred in April 2015. During the 2020 operational period both SSDSs operated continuously with no significant changes from prior year operations. Operation parameters for each SSDSs are summarized in Table 2.

5.1 Inspection, Monitoring, and Maintenance Activities

Periodic inspections to monitor the SSDSs and adjust operations were conducted on:

- March 19, 2020 by Farallon personnel
- September 23, 2020 by LAI personnel.

The work elements cited in Section 4, Inspection, Monitoring, and Maintenance Procedures, were monitored and documented during each visit.

Air quality monitoring was conducted to evaluate whether the SSDSs were reducing HVOCs in indoor air. Sampling events were conducted on:

- March 19, 2020 by Farallon personnel
- September 23, 2020 by LAI personnel.

Each sampling event at each building included collecting indoor air samples and an outdoor ambient air sample. The approximate locations of the samples are depicted on Figure 3 and Figure 4. Sampling was conducted in general accordance with the procedures described in the VIIMM Work Plan (Farallon 2015b) and its supporting documents. Air quality monitoring parameters and results are summarized in Table 1. The laboratory analytical reports are provided in Appendix B.

The monitoring conducted in March and September 2020 at PFS-N and Natus also included 5-minute grab samples of the soil gas influent being extracted by each SSDS prior to discharge to the exhaust stack. The purpose of this sampling was to confirm that the discharge to outdoor ambient air would comply with Puget Sound Clean Air Agency regulations, and to compare concentrations of HVOCs in influent samples to outdoor air sampling results to evaluate whether the sources are related. Samples were collected using a 1-liter Summa canister at a sampling port located prior to entry to the SSDS blower. Samples were collected while the system was operating. A slight vacuum was maintained in the canister to mitigate potential loss of the sampled influent. Routine maintenance activities included inspection of each building's SSDS components during each 2020 Site visit.

5.2 Inspection, Monitoring, and Maintenance Results

Results from the air quality sampling and SSDSs operation monitoring results are described below. The air quality monitoring sample locations are depicted on Figure 3 and Figure 4. The sampling

parameters, IPIMALs, and results are summarized on Table 1. The IPIMALs¹ were used to evaluate sample results for both subslab soil gas² and indoor air. Table 2 provides a summary of SSDS operation parameters. The laboratory analytical reports are provided in Appendix B.

5.2.1 PFS-N Results

Air quality monitoring results collected in 2020 indicated that COCs persisted in indoor air at concentrations similar to prior rounds of monitoring at PFS-N (Table 1). However, pressure measurements indicate the SSDS is maintaining the pressure field across the entire building slab. The consistent detections of COCs in indoor air while the SSDS is properly functioning indicate a background source of COCs in indoor air at PFS-N.

TCE concentrations detected at PFS-N on March 19, 2020 at two indoor sample locations (IA1 and IA8)³ were 5.52 and 1.43 $\mu g/m³$, respectively. The PCE concentrations were 0.475 and 0.598 $\mu g/m³$. The March cis-1,2-DCE concentrations were 2.09 $\mu g/m³$ and non-detect. The trans-1,2-DCE concentrations were 0.287 $\mu g/m³$ and non-detect. The 1,1-DCE concentrations were 0.0815 $\mu g/m³$ and non-detect. The March vinyl chloride concentrations were non-detect at both IA1 and IA8 locations. The outdoor air sample collected in March was non-detect for all COCs except for trans-1,2-DCE, which was detected at 0.0311 $\mu g/m³$.

The September 23, 2020 TCE concentrations detected at three indoor sample locations at PFS-N ranged from 1.37 to 1.64 $\mu g/m^3$ and PCE concentrations ranged from non-detect to 0.561 $\mu g/m^3$. No other COCs were detected in indoor air during September. The outdoor air sample collected in September was non-detect for all COCs.

PCE, trans-1,2-DCE, 1,1-DCE, and vinyl chloride results in 2020 did not exceed the indoor air IPIMALs of 7.5, 12, 39, and 0.66 μ g/m³, respectively. However, TCE results exceeded the indoor air IPIMAL of 0.39 μ g/m³ in both the March and September sampling events (Table 1).

The SSDS at PFS-N was measured in September at 3.8 IOW operating vacuum and 24.7 standard cubic feet per minute (SCFM) flowrate, resulting in a measured differential pressure vacuum range of 0.032 to 0.063 IOW at subslab monitoring ports SSMP-1 through SSMP-5. Table 2 provides a summary of SSDS operation parameters.

The SSDS soil gas influent samples were collected to evaluate the discharge from the system. PCE was detected at a concentration of 94.6 $\mu g/m^3$ (Table 1), and TCE at a concentration of 168 $\mu g/m^3$. The commercial subslab soil gas IPIMALs for PCE and TCE are 250 $\mu g/m^3$ and 13 $\mu g/m^3$, respectively. The SSDS soil gas influent samples for both March and September 2020 did not exceed the soil gas

¹ The lower of the cancer and non-cancer IPIMALs were used for evaluation purposes.

 $^{^{2}}$ Subslab soil gas IPIMALs are calculated from the indoor air IPIMAL using an attenuation factor of 0.03.

³ IA9 was not sampled in March of 2019.

IPIMALs for PCE but did for TCE. PCE and TCE SSDS influent samples have been consistent since the SSDS startup with a detected steady-state rate of removal from approximately 2016 to date.

5.2.2 Natus Results

Air quality monitoring results collected in 2020 indicated that COCs were below their respective indoor air IPIMALs (Table 1) for TCE and PCE at the Natus Building. The outdoor ambient air sample collected in March did exceed the non-cancer IPIMALs for PCE but was non-detect for TCE. The September ambient outdoor air sample contained detectable concentrations of PCE but was below the IPIMALs, and TCE was non-detect.

The March 19, 2020 TCE concentrations detected at two indoor sample locations at Natus ranged from 0.176 to 0.213 $\mu g/m^3$ and PCE concentrations ranged from 0.411 to 0.734 $\mu g/m^3$; both were below their respective indoor air IPIMALs (Table 1). All other COCs during the March sampling period were non-detect except for trans-1,2-DCE, which was detected at a concentration of 0.0268 $\mu g/m^3$ at sample location 5900-IA3. The outdoor air sample collected in March was non-detect for all COCs exceptPCE, which was detected at 8.83 $\mu g/m^3$, exceeding the IPIMAL.

The September 23, 2020 TCE and PCE concentrations were non-detect at the two indoor sample locations for all COCs at Natus. The outdoor air sample collected on September 23, 2020 was non-detect for all COCs except PCE, detected at $3.45 \, \mu g/m^3$, which is below the IPIMAL (Table 1).

The SSDS at Natus was measured in March and September at 9.6 IOW operating vacuum and 250 and 258 SCFM flowrates, resulting in a measured vacuum range at the extraction sumps of 8.0 to 9.0 IOW. Table 2 provides a summary of SSDS operation parameters. An SSDS soil gas influent sample was collected to evaluate discharge from the system. TCE was detected at a concentration range of 0.511 to 0.525 μ g/m³, and PCE at a concentration range of 0.596 to 1.41 μ g/m³ (Table 1). The SSDS soil gas influent samples for both March and September 2020 were below their respective commercial subslab soil gas IPIMALs for all COCs. The commercial subslab soil gas IPIMALs for PCE and TCE are 250 μ g/m³ and 13 μ g/m³, respectively. PCE and TCE SSDS influent samples at Natus have been consistent with a steady-state rate of removal from approximately 2017 to date based on available data. The SSDS vacuum blower at Natus was fully inspected during the 2020 Site visits and is still operating effectively within normal operating parameter ranges. The current vacuum blower is applying sufficient vacuum beneath the Natus Building slab resulting in ongoing effective depressurization and VI mitigation.

6.0 CONCLUSIONS

The PFS-N Building air quality monitoring results for PCE and TCE have fluctuated over time, with TCE concentrations continuing to exceed IPIMALs despite ongoing operation of the SSDS (Table 1 and Table 2; Figures 3). PFS-N SSDS soil gas influent sampling results indicate that the SSDS is effectively capturing PCE and TCE vapors from beneath the PFS-N Building slab (Table 1). Depressurization of the area beneath the PFS-N Building slab is confirmed by pressure field monitoring data, which confirm that depressurization of the slab is occurring, and exceeding the criteria established for the SSDS in the VIIMM Work Plan (Farallon 2015b) (Table 1).

The ongoing persistent source of TCE being detected within the PFS-N Building indoor air is unknown but appears to be related to a background TCE source within the building. Ongoing PFS-N inspection and monitoring visits have not identified cracks or penetrations in the floor slab. It also is possible that the building materials within the indoor air space of PFS-N contain a source of TCE from a historical release that has not been identified. Further investigation of the source of TCE at the PFS-N Building is recommended.

The Natus Building indoor air quality monitoring results for PCE and TCE concentrations were either non-detect or did not exceed their respective IPIMALs (Table 1 and Table 2; Figures 4). SSDS soil gas influent sampling results indicate that the SSDS is effectively capturing low level PCE and TCE vapors from beneath the Natus Building slab on an ongoing basis (Table 1). Depressurization of the area beneath the Natus Building slab was confirmed by pressure field monitoring data, which indicate ongoing depressurization of the slab is occurring (Table 2). The SSDS influent concentrations indicate the subslab vapor concentrations are not a risk for vapor intrusion as they are all below the subslab soil gas IPIMALs for all constituents when the SSDS is operating. Re-evaluation of the VI potential at Natus is recommended to determine if continued operation of the SSDS system is required.

The SSDS vacuum blower in operation at Natus is beyond its standard operational lifetime period and is scheduled to be replaced in 2021. During inspection and monitoring activities conducted during 2020 the SSDS vacuum blower was fully inspected and is still operating effectively within normal operating parameter ranges. Despite its age, the current vacuum blower is applying sufficient vacuum beneath the Natus Building slab resulting in ongoing effective depressurization and VI mitigation. If additional work conducted in 2021 determines that ongoing SSDS operations at Natus are necessary beyond 2021, the vacuum blower should be replaced with a similar unit to continue operations beyond 2021 and further investigations into the VI source may be warranted.

7.0 PLANNED WORK FOR 2021

SSDS operations will continue at both PFS-N and Natus buildings during the 2021 period, pending the additional investigation work recommended above. SSDS inspections, maintenance, and monitoring, including indoor/outdoor ambient air sampling, is scheduled to be conducted by LAI personnel in March and September 2021 at both PFS-N and Natus. The results of the inspections, maintenance, and monitoring of the SSDSs will be summarized in the 2021 annual VI mitigation status report. As part of 2021 operations, further evaluation will be conducted to determine the source of persistent TCE concentrations being detected at PFS-N on an ongoing basis in exceedance of the IPIMALs. Additional work will also be conducted to determine if the SSDS system at Natus can be shut down. If ongoing SSDS operations are determined necessary beyond 2021 at the Natus Building, it is expected that the vacuum blower currently in operation will be replaced with a similar unit to continue operations beyond 2021. A work plan for the additional work will be submitted for Ecology review. Results will be summarized in a report that will also provide recommendations for any revisions to the VI mitigation program deemed necessary.

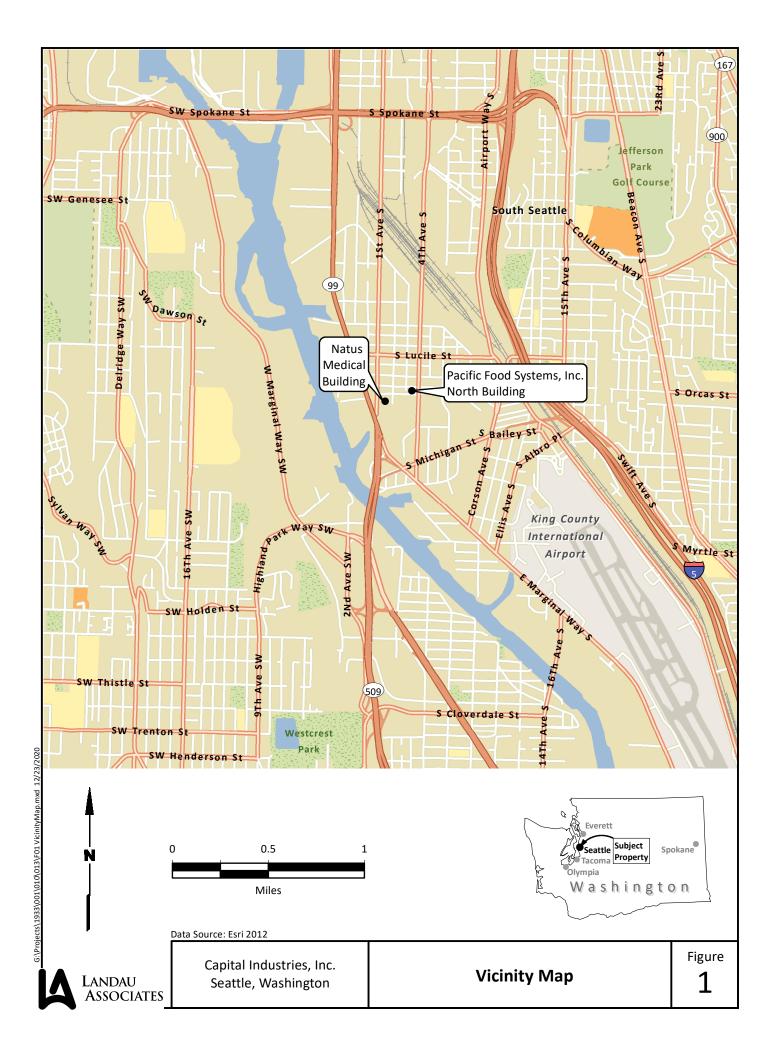
8.0 USE OF THIS REPORT

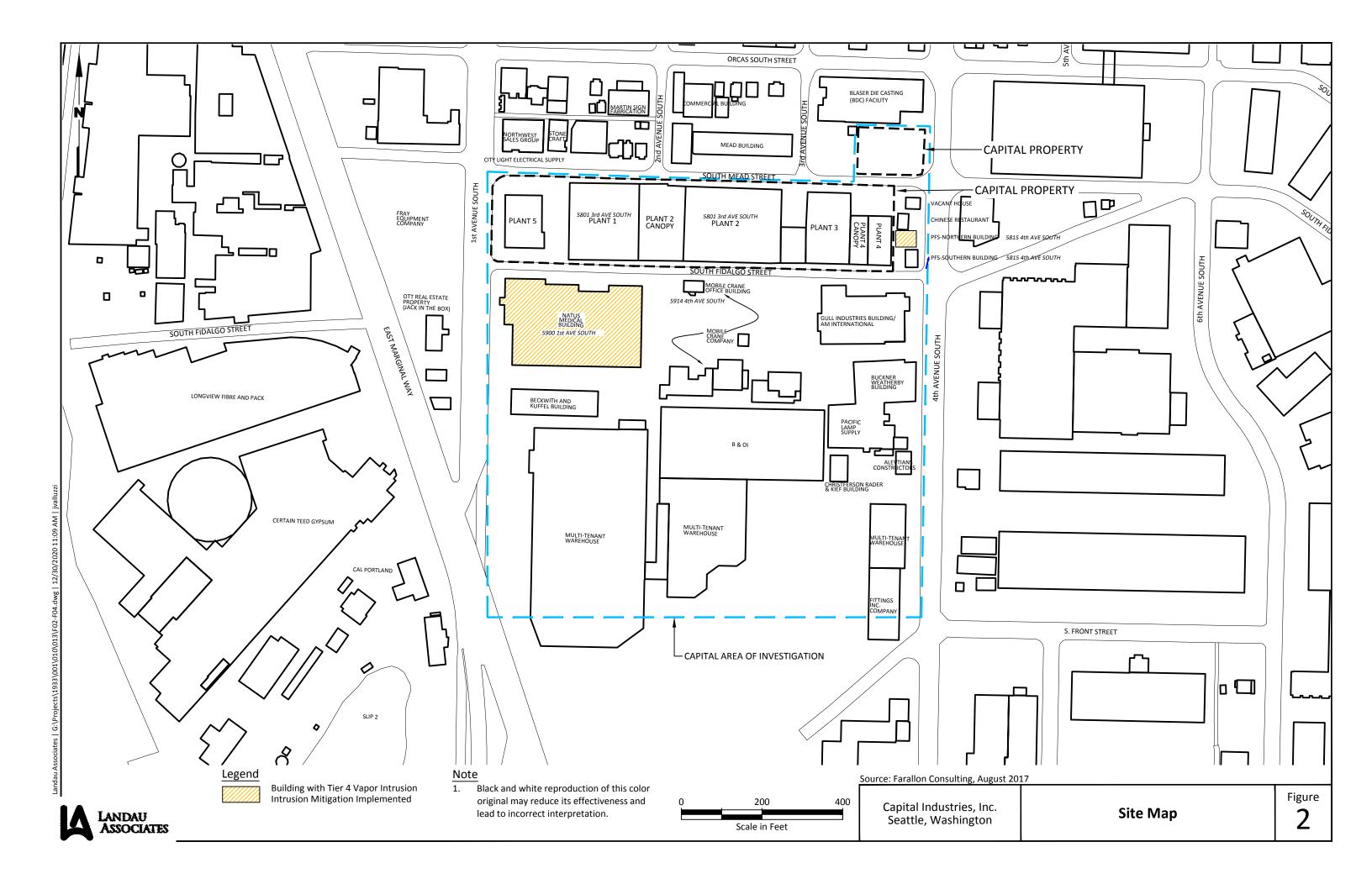
This report has been prepared for the exclusive use of Capital Industries and applicable regulatory agencies for specific application to the Capital Area of Investigation and Agreed Order No. DE 10402 Site. No other party is entitled to rely on the information, conclusions, and recommendations included in this document without the express written consent of LAI. Further, the reuse of information, conclusions, and recommendations provided herein for extensions of the project or for any other project, without review and authorization by LAI, shall be at the user's sole risk. LAI warrants that within the limitations of scope, schedule, and budget, our services have been provided in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions as this project. LAI makes no other warranty, either express or implied.

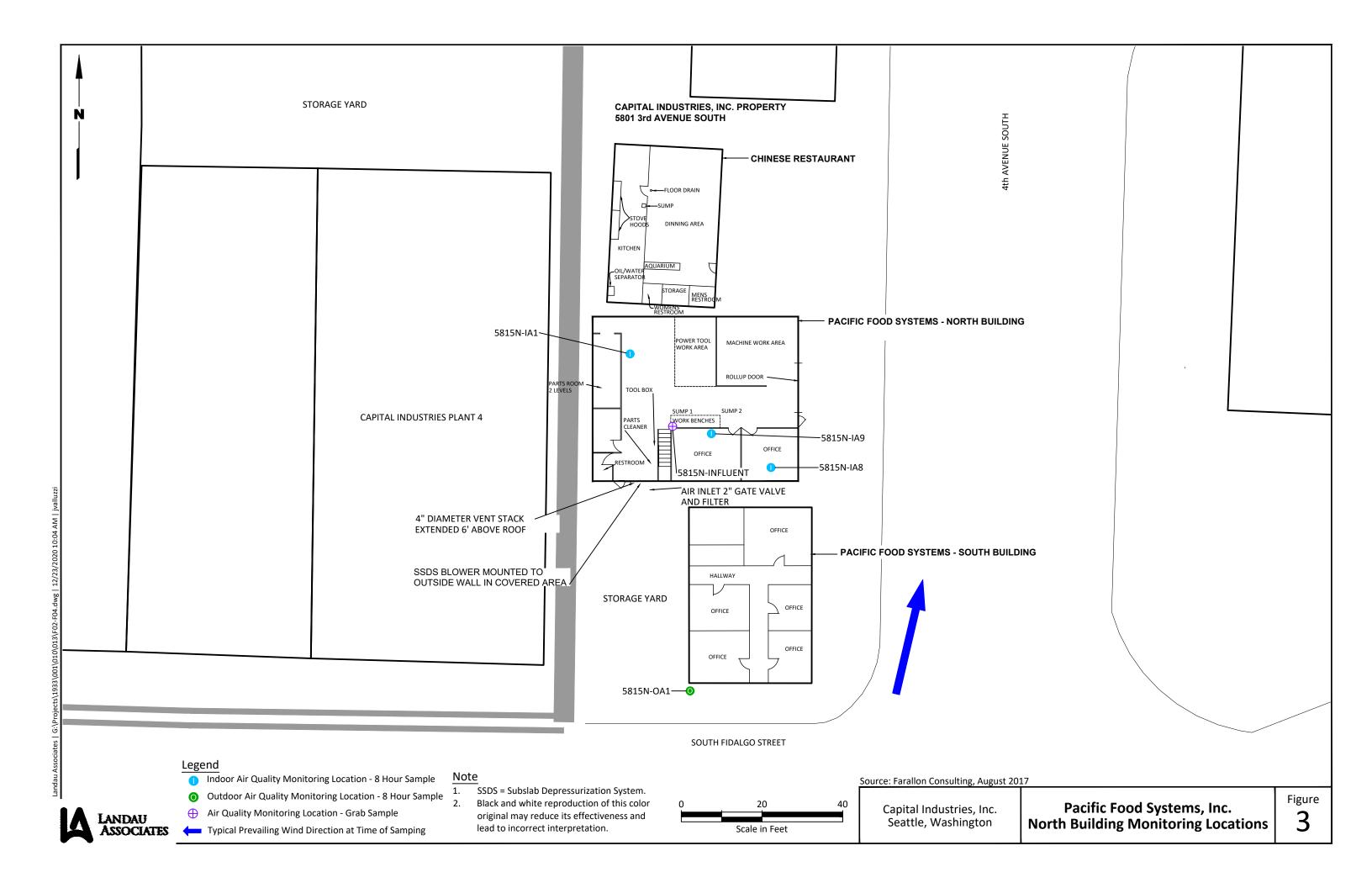
9.0 REFERENCES

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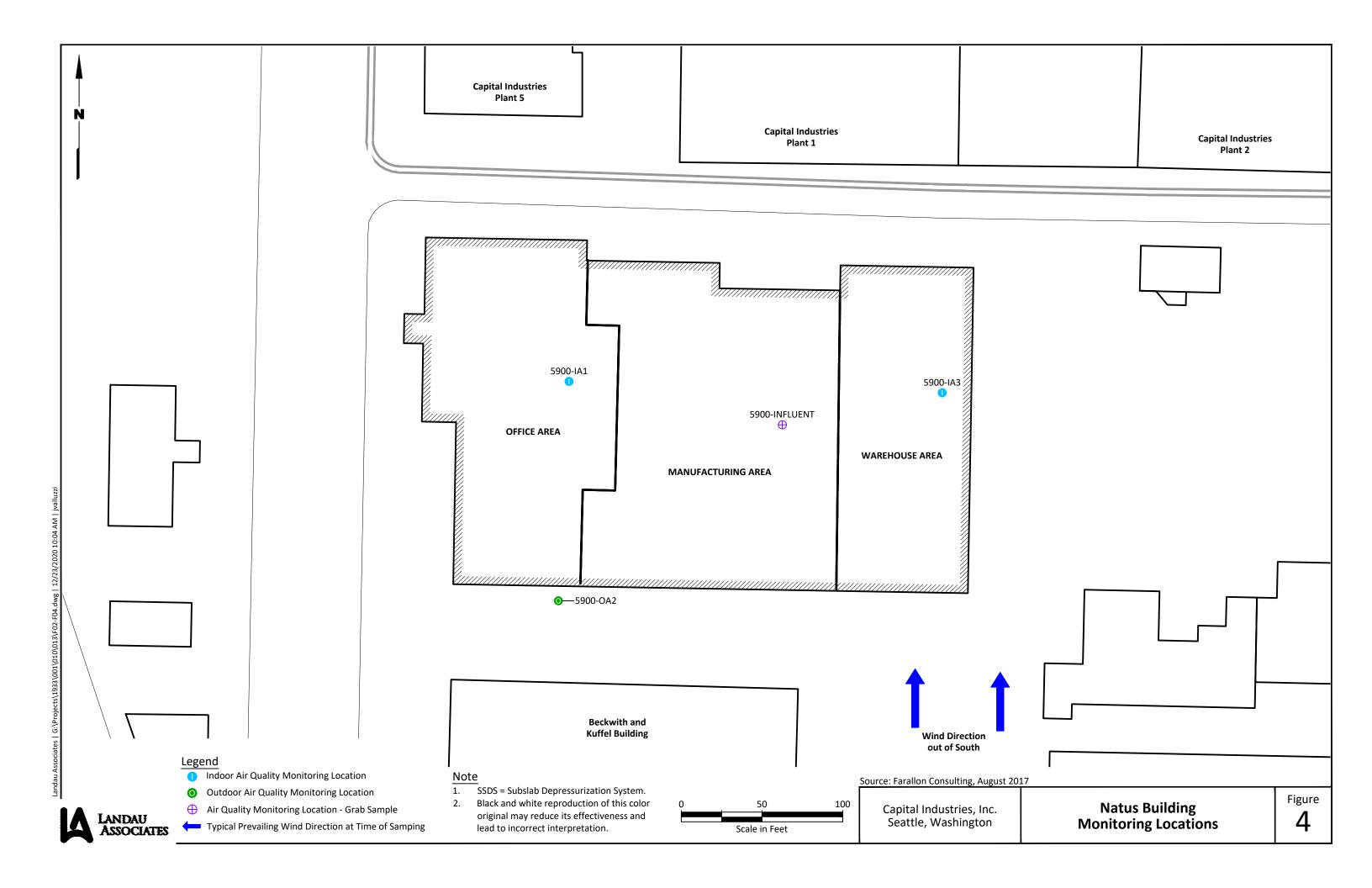


Table 1 Summary of 2020 Air Quality Monitoring Results Capital Industries

							VOCs by EPA TO-15 SIM (μg/m3)							
		Sample	Sample	Sample	Laboratory	Laboratory	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride		
Building	Sample Type	Location	Date	Туре	SDG	Sample ID				1				
						I Gas IPIMAL ^{1,2}	250	13	NA	400	1300	22		
		T	2/12/222	Co	mmerciai ind	oor Air IPIMAL	7.5	0.39	NA	12	39	0.66		
	Influent Grab	5815N-INFLUENT	3/19/2020		22222		98.0	87.4	2.30		0.0357 U			
	Sample	5815N-IA1	9/23/2020	N	2009385	2009385-005A	94.6	168	5.57		0.0357 U			
			3/19/2020		2000205	2000205 0044	0.475	5.52	2.09	0.287		0.217 U		
Pacific Food	Indoor Air Outdoor Air	5815N-IA8	9/23/2020	N	2009385	2009385-001A	0.510	1.64		0.0238 U				
Systems, Inc.			3/19/2020		22222		0.598	1.43		0.0238 U				
			9/23/2020	N	2009385	2009385-003A	0.339 U		0.0793 U					
		5815N-IA9	9/23/2020	N	2009385	2009385-002A			0.0793 U					
		5815N-OA1	3/19/2020						0.0793 U		0.0357 U			
			9/23/2020	N	2009385	2009385-004A			0.0793 U					
	Influent Grab	5900-INFLUENT	3/19/2020				0.596	0.525		0.0238 U				
	Sample		9/23/2020	N	2009385	2009385-009A	1.41		0.0793 U					
		5900-IA1	3/19/2020				0.411		0.0793 U					
Natus Medical	Indoor Air		9/23/2020	N	2009385	2009385-007A			0.0793 U					
Building		5900-IA3	3/19/2020				0.734		0.0793 U					
		2223 11.0	9/23/2020	N	2009385	2009385-006A			0.0793 U					
	Outdoor Air	5900-OA2	3/19/2020				8.83	0.0914 U	0.0793 U	0.0238 U	0.0357 U	0.217 U		
	Outubbi All	3300-UA2	9/23/2020	N	2009385	2009385-008A	3.45	0.0914 U	0.0793 U	0.0238 U	0.0357 U	0.217 U		

Notes:

- (1) IPIMALs were developed for both cancer and non-cancer levels. For each constituent the lower level IPIMAL is shown (all but one of the non-cancer IPIMALs was lower than the cancer IPIMAL [vinyl chloride]).
- (2) Soil gas IPIMALs were previously calculated using an attenuation factor of 0.1, however, Ecology guidance has been updated and current guidance uses an attenuation factor of 0.03 for calculation of sub slab soil gas screening levels.

Bold text indicates detected analyte

Green shading indicates detected analyte exceeds applicable cleanup or screening level

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

Acronyms and Abbreviations:

ID = Identification

IPIMAL = inhalation pathway interim measure action level

 μ g/m³ = micrograms per cubic meter

N = primary sample

NA = not applicable

SIM = selected ion monitoring

VOC = volatile organic compound

Table 2
Summary of 2020 Pacific Food Systems, Inc. North Building SSDS Operation Parameters
Capital Industries

	Individ	lual Pressure (Gauge Vacuu IOW)	m Reading		Pressure Gauge Field-Measured		Pressure Gauge/Field-	Concer	red Influent tration 'm³)	Removal Rate ² (µg/min)		Projected Annual Discharge (lbs/year)		
Date	SSMP-1	SSMP-2	SSMP-3 ¹	SSMP-4 ¹	SSMP-5 ¹	Vacuum Reading (IOW)	Operating Vacuum (IOW)	SVE System Flow (scfm)	Measured Pressure Differential (percent)	PCE	TCE	PCE	TCE	PCE	TCE
3/19/2020	0.04	0.018	0.005	0.02	0.005	3.6	4.2	24.7	117%	98	87.4	68.6	61.1	0.079	0.071
9/23/2020	0.063	0.032	0.047	0.054	0.043	3.6	3.8	24.7	106%	94.6	168	66.2	117.5	0.077	0.136
SSDS Operations	<0.025	<0.025	<0.025	<0.025	<0.025		NA		75 - 125 percent		N.	4		1,000 lk	os/year

Notes:

¹Subslab monitoring ports SSMP-3 through SSMP-5 were installed in April 2018.

Acronyms and Abbreviations:

% = percentscfm = standard cubic feet per minuteIOW = inches of waterSSDS = subslab depressurization systemIbs = poundsSSMP = subslab monitoring probeμg = microgramsSVE = soil vapor extraction

m³ = cubic meter TCE = trichloroethene

min = minute VIMMWP = Vapor Intrusion, Inspection, Monitoring,

NA = not applicable and Maintenance Work Plan

PCE = tetrachloroethene

² Removal Rate = SVE flow * Measured PCE or TCE concentration

Table 3 Summary of 2020 Natus Building SSDS Operation Parameters Capital Industries

Pressure Gauge Vacuum Reading (IOW)										Lab-Measur Concen (µg/	tration		ral Rate ¹ /min)		d Annual narge year)
Date	SSDS Extraction Sump 1	SSDS Extraction Sump 2	SSDS Extraction Sump 3	SSDS Extraction Sump 4	SSDS Extraction Sump 5	SSDS Extraction Sump 6	SSDS Extraction Sump 7	SSDS Vacuum (IOW)	SSSDS Flow (scfm)	PCE	TCE	PCE	TCE	PCE	TCE
3/19/2020	9.0	9.0	9.0	NM	9.0	9.0	9.0	9.6	250	0.596	0.525	4.2	3.7	0.005	0.004
9/23/2020	9.0	9.0	8.0	NM	9.0	9.0	9.0	9.6	258	1.41	0.511	10.3	3.7	0.012	0.004
VIMMWP SSDS Operations Goals	Within 25 percent of applied system vacuum at extraction sumps; or >0.005 IOW at any monitoring point beyond extraction sump							NA	NA		N	Α		1,000 lk	os/year

Notes:

Acronyms and Abbreviations:

IOW = inches of waterscfm = standard cubic feet per minutelbs = poundsSSDS = subslab depressurization system $\mu g = micrograms$ SSMP = subslab monitoring probe $m^3 = cubic$ meterSVE = soil vapor extractionmin = minuteTCE = trichloroethene

NA = not applicable VIMMWP = Vapor Intrusion, Inspection, Monitoring,

NM = not measured and Maintenance Work Plan

PCE = tetrachloroethene

¹ Removal Rate = SVE flow * Measured PCE or TCE concentration

Subslab Depressurization System As-Built Schematics

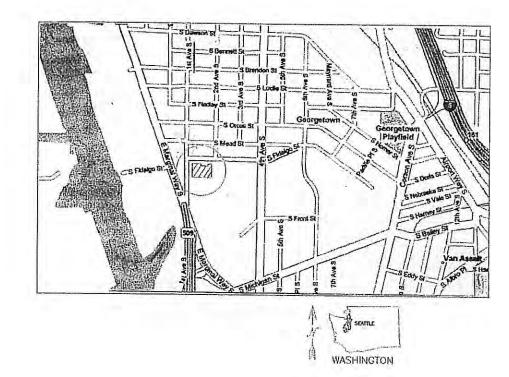


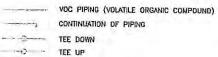
OLYMPIC MEDICAL BUILDING City of Seattle Department of Planning & Development

Olympic Medical Building 5900 1st. Avenue South Seattle, Washington 98108-3248

MECHANICAL ENGINEER:

MANDATORY CODE COMPLIANCE





CAPPED END

ABOVE FINISHED FLOOR RALL VENT CONDENSING UNIT EXHAUST FAN FRESH AIR INTAKE INVERT ELEVATION ROOF DRAIN RELIEF VENT RTU ROOF TOP LINE TYPICAL VOLATILE ORGANIC COMPOUND

EQUIPMENT AND MATERIAL REMOVED SHALL BECOME PROPERTY OF THE CON-TRACTOR UNLESS NOTED OTHERWISE AND SHALL BE REMOVED OFF-SITE.

DRAWINGS ARE PARTLY DIAGRAMMATIC AND DON'T NECESSARILY SHOW EXACT CONDITIONS OF CONSTRUCTION. LOCATION OF PIPING SHALL BE FIELD VERFIED TO DETERMINE THAT IT CLEARS ALL OPENINGS AT STRUCTURAL MEMBERS, CHASES AND THAT EQUIPMENT, ETC. HAVING FIXED LOCATIONS WILL BE CLEARED.

3. EXAMINE PREMISES AND BECOME FAMILIAR WITH EXISTING CONDITIONS BEFORE STARTING WORK. FIELD VERIFY CONSTRUCTION MATERIALS OF FLOORS, WALLS, CEILINGS AND ROOFS BEFORE STARTING WORK. OTHER EXISTING MATERIALS AND EQUIPMENT ARE NOT SHOWN ON THESE DRAWINGS SUCH AS DUCTWORK, WARE EQUIPMENT, HEATING PIPING, GAS PIPING, CONDUIT, ETC. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND SIZES OF EXISTING MATERIALS AND EQUIPMENT AND SHALL OFFSET NEW PIPING AS NECESSARY AROUND EXISTING MATERIALS AND EQUIPMENT.

4. REMOVE MEANS, REMOVE AND DISPOSE OF UNLESS SPECIFICALLY DIRECTED OTHERWISE.

DO NOT ALLOW ANY WORK (PIPING/EQUIPMENT) TO BE COVERED UP OR ENCLOSED UNTIL INSPECTED, TESTED AND APPROVED BY AUTHORITY HAVING JURISDICTION AND/OR THE OWNER'S REPRESENTATIVE.

6. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WHERE CONFLICTS OCCUR, BRING THOSE TO THE ATTENTION OF THE DESIGN ENGINEER IMMEDIATELY AND BEFORE INSTALLING THE PIECE OF EQUIPMENT OR ITEM.

THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SAW CUTTING AND CORE DRILLING AND PATCHING OF FLOORS, WALLS, CEILINGS AND ROOFS IN ORD TO INSTALL THE NEW VOC SYSTEMS.

8. THE CONTRACTOR SHALL ARRANGE AND PAY FOR ALL PERMITS, INSPECTIONS AND FEES REQUIRED IN CONNECTION WITH THIS PROJECT.

COYER SHEET

SHE PLAN ROOF PLAN

DETAILS & SCHEDIFLE

JOB NO.: 6198563 11/07/08 DATE: KJ CHECKED: DG

SHEET NO .

SCALE:1"=30"



SHEET NO .:





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MITICATION TESTING AND I NORTH 2801 MONDOE, SUITE A SPOKANE, WASHINGTON (\$09)-326-5127

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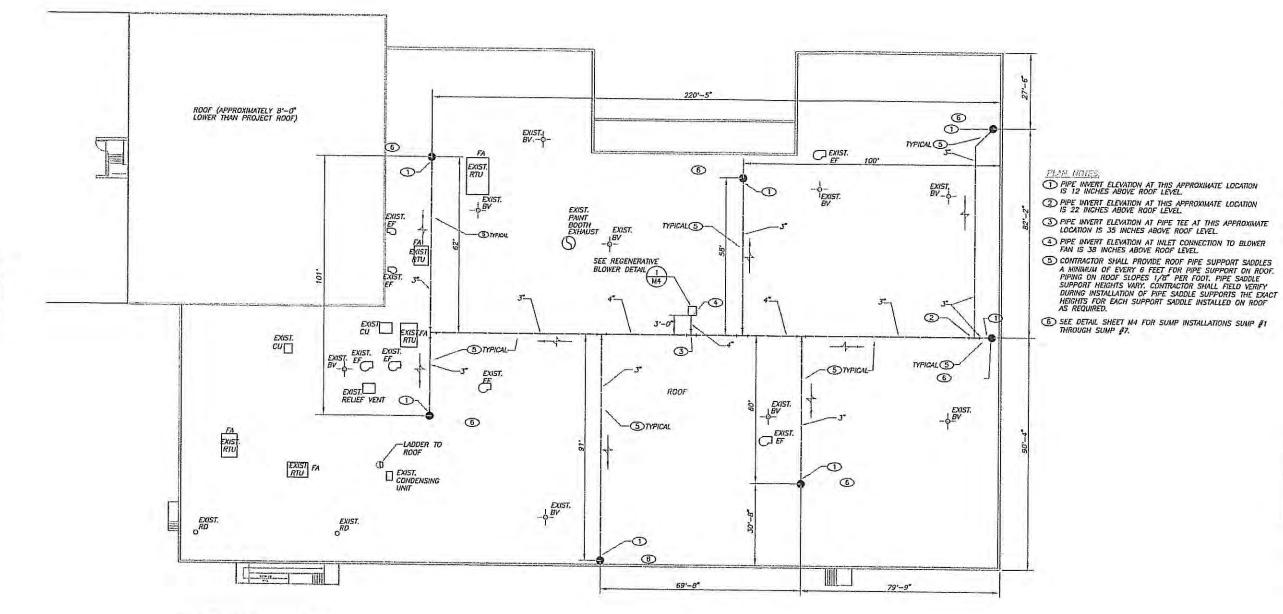
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SEATTLE, WASHINGTO

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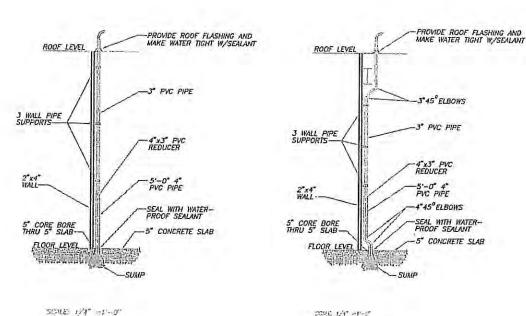


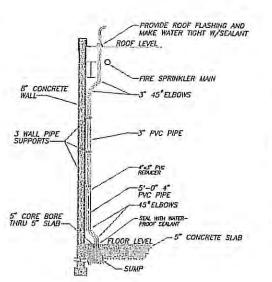
EXIST. RTU = 80 ag, ft. x 5 = 400 ag, ft. eXIST. EF = 4 ag, ft. x 7 = 28 ag, ft. eXIST. CU = 9 ag, ft. x 4 = 36 ag, ft. eXIST. RV = 1 ag, ft. x 9 = 9 ag, ft. eXIST. RV = 2 ag, ft. x 1 = 2 ag, ft. eXIST. RV = 2 ag, ft. x 2 = 1 ag, ft. NEW BLOWER 4 ag, ft. x 2 = 1 ag, ft. new BLOWER 4 ag, ft. x 4 ag, ft. TOTAL APPROX. SQ.FT. = 480 ag, ft.

SCALE: 1/16" =1'-0"

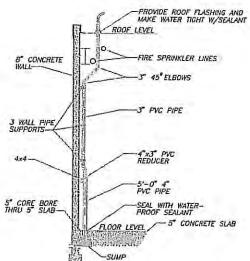
ROOF AREA = 52,800 GSF
EXISTING HVAC EQUIPMENT AREA = 476 GSF
NEW HVAC EQUIPMENT AREA = 4 GSF
ROOF COVERAGE = EXIST. HVAC (476) + NEW HVAC (4) X 100% = .91%

NEW RECENERATIVE BLOWER = 83 dBA
DISTANCE TO CLOSEST PROPERTY LINE = 130 FT.
dBA REDUCTION FROM EQUIPMENT (TABLE 2) 3B dBA
NET SOUND LEVEL = 83 dBA = 35 dBA = 45 dBA





SCALE: 1/4" =1"-0"



ROOF LEVEL

CONCRETE SLAB-

SCALE 1/4" =1"-11"





INSTALLATION NORTH 2801 MONROE, SUITE A SPOKANE, WASHINGTON (509), 326-5127

MITICALION

SEE NEW REGENERATIVE DBLOWER DETAIL



RADON

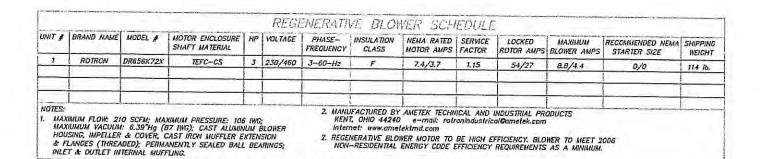




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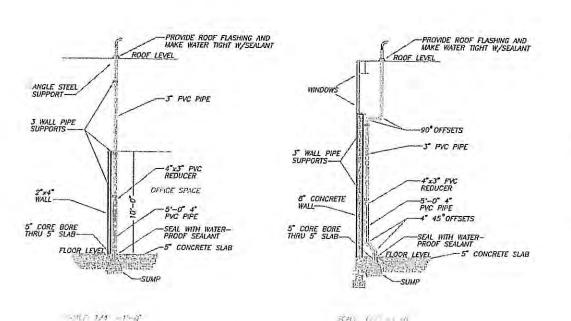
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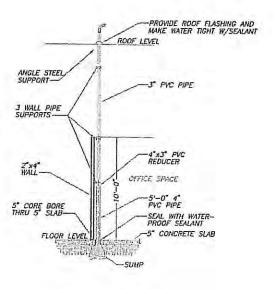
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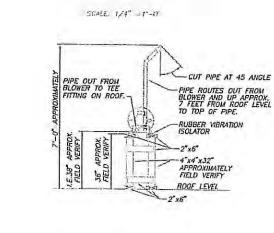


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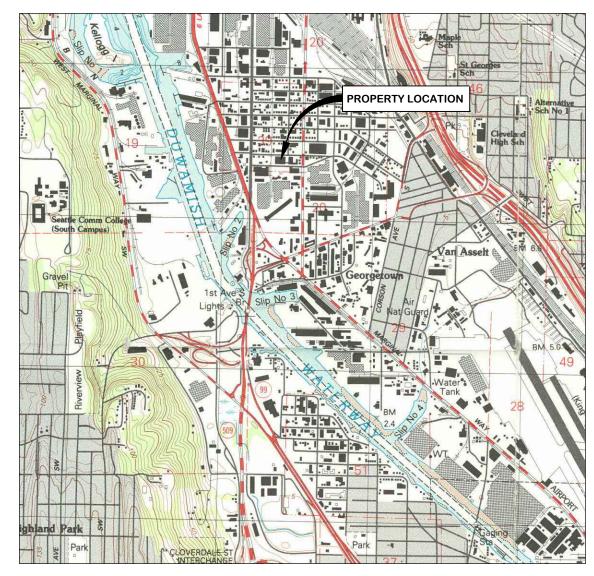
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1/4 (1.1

SUB-SLAB DEPRESSURIZATION SYSTEM

PACIFIC FOOD SYSTEMS - NORTH BUILDING 5815 4TH AVE SOUTH SEATTLE, WA 98108



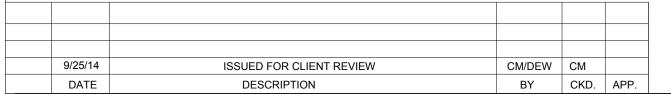


REFERENCE: 7.5 MINUTE USGS QUADRANGLE SOUTH SEATTLE, WASHINGTON. DATED 1983











DRAWING INDEX

FARALLON Oakland | Sacramento | Irvine

SHEET NO.	DRAWING TITLE
1	TITLE SHEET, SITE LOCATION MAP, AND DRAWING INDEX
2	GENERAL NOTES, LEGEND, SYMBOLS, AND ABBREVIATIONS
3	SITE PLAN WITH SUB-SLAB DEPRESSURIZATION SYSTEM
4	DETAILS

PREPARED FOR CAPITAL INDUSTRIES,INC. 5801 3RD AVE. SOUTH SEATTLE, WA 98108

SUB-SLAB DEPRESSURIZATION SYST

TITLE SHEET, SITE LOCATION MAP, AND DRAWING INDEX

STEM	SCALE AS SHOWN		
	PROJECT NO 457-007	0.	
n	FILE NAME: SYSTEM.dwg	J	
	SHEET NO.	OF	
	1		1

ELECTRICAL ABBREVIATIONS STANDARD ABBREVIATIONS PIPING, ELECTRICAL AND EQUIPMENT SYMBOLS AIR FILTER HIGH DENSITY POLYETHYLENE PRESSURE RELEASE VALVE HORIZ HP HR HS HYD AGGREGATE BASE ASPHALTIC CONCRETE — GATE VALVE - FEMALE ADAPTER GROUND AC APPROX HORSEPOWER/HIGH PRESSURE ALTERNATING CURRENT PSIA POUNDS PER SQUARE INCH. ABSOLUTE AC APPROXIMATELY $-\infty$ — GLOBE VALVE PSIG PTW POUNDS PER SQUARE INCH, GAUGE AIR FILTER AF AS — SILENCER GROUND ROD (3/4" COPPER WELD) - S BD BUS DUC PRESSURE TREATMENT $-\!\Omega\!-$ — BALL VALVE AIR SPARGE HYDRANT PVC PV PR POLYVINYL CHLORIDE HOA HAND OFF AUTOMATIC PROCESS VARIABLE — BUTTERFLY VALVE HEATER STRIP NEEDLE VALVE B.G.S. BELOW GROUND SURFACE CIRCUIT BREAKER BLDG BOP BV ID INSIDE DIAMETER — CHECK VALVE CLG PUBLIC UTILITY EASEMENT (J) IN INV INCHES INVERT JUNCTION BOX, PB-PULLBOX FLOW METER DC DIS DIRECT CURRENT RADIUS/RISER DIAPHRAGM OPERATED VALVE CONC CONCRETE IPS IRON PIPE SIZE REINFORCED CONCRETE CPLG L /CL CV COUPLING - HOSE BIB KII OWATT HOUR METER DP DT DOUBLE POLE JT JB JOINT. REQ REF REQUIRED CENTERLINE SOLENOID VALVE **₩** JUNCTION BOX M CONTROL VALVE/CHECK VALVE SAMPLE TAP/MONITORING PORT DC /DIA KΩ KNOCK OUT FG ENCLOSED AND GASKETED DOUBLE CONTAINED SCHEDULE STANDARD DIMENSION RATIO SCH SDR SECT SHT SPEC SQ STA STD STL SBO ST STR -1√-MOTOR OPERATED VALVE ELECTRICAL (OVERHEAD) LSHH LEVEL SWITCH DIAMETER -WW HEAT EXCHANGER F(UG) ELECTRICAL (UNDERGROUND) DWG DRAWING SECTION MOTOR OVERLOAD MOTOR DP DPI SHEET PRESSURE REGULATING VALVE MAX MAXIMUM EMERGENCY POWER OFF DIFFERENTIAL PRESSURE INDICATOR EPO MH MJ MANHOLE SPECIFICATION PRESSURE RELIEF OR AIR RELIEF EMT EXP ELECTRICAL METALLIC TUBING SQUARE STATION MECHANICAL JOINT NON-FUSABLE DISCONNECT SWITCH DRAIN MINUTE/MINIMUM EL/ELEV ELEVATION STANDARD MISC MISCELLANEOUS VACUUM RELIEF PILOT LIGHT, R=RED, W=WHITE, G=GREEN MNPT MP MALE NATIONAL PIPE THREAD STEEL WELD CAP ELB **ELBOW** FLEX FLEXIBLE METAL CONDUIT METER PUMP SUPPLIED BY OWNER FPDM ETHYLENE PROPYLENE RUBBER NO DUAL ELEMENT FUSE → SCREWED CAP EXIST/(E) MON.PORT MONITORING PORT EXISTING 0 NORMALLY OPEN MONITORING WELL STRAINER MW FXP **EXPANSION** → SCREWED PLUG AO=AUTO OFF, HOA=HAND OFF AUTO GEN GENERATOR SS STL STAINLESS STEEL EW EA EACH WAY GFIC GROUND FAULT INTERRUPTER S NC NORMALLY CLOSED FLANGE STEEL SWITCH, 120-277V, 2-2POLE, 20A EACH NIC NO NO. N SOIL VAPOR EXTRACTION GND GROUND SVE NORMALLY CLOSED GALVANIZED RIGID CONDUIT | BLIND FLANGE FC FAIL CLOSE NORMALLY OPEN (T) THERMOSTAT FAIL OPEN NUMBER -— REDUCER/INCREASER TYP TOC TOS TOW HOA HAND-OFF-AUTO SWITCH FLXC TYPICAL TOP OF CASING/CURB FLEXIBLE CONNECTION \square MAGNETIC STARTER (TD) → DIRECTION OF FLOW FM FLOW METER NTS NOT TO SCALE TIME DELAY RELAY, CR=CONTROL RELAY IRD INFRARED DETECTOR NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM TOP OF STEEL — UNION TOP OF WALL FOOT DUPLEX RECEPTACLE 15A: TRANSFORMER HORSE POWER FUTURE OC ON CENTER — FLEXIBLE PIPE COUPLING WP-WEATHER PROOF FIN GR FINISHED GRADE CYCLES PER SECOND UNIFORM BUILDING CODE OUTSIDE DIAMETER UNDERGROUND PULLBOX UNDERGROUND PULL SECTION FLANGED END OSHA OCCUPATIONAL SAFETY AND **UGPS** JB JUNCTION BOX FEMALE NATIONAL PIPE THREAD UTIL BLOWER OR FAN ETM HEALTH ADMINISTRATION ELAPSED TIME METER OVHD W.P. GA GAC GALV GI GPM WEATHER PROTECTED GAUGE GRANULAR ACTIVATED CARBON VALVE/VENT/VOLTS VACUUM VARIES/VARIABLE LFMC LIQUID TIGHT FLEXIBLE V VAC VAR VERT VP CENTRIFUGAL PUMP GALVANIZED 120/208V PANEL PULL BOX VERTICAL MOTOR/MOTOR STARTER COIL PROVIDED BY FARALLON PITOT TUBE GALLONS PER MINUTE VAPOR MCC MCP MOTOR CONTROL CENTER MOTOR CIRCUIT PROTECTOR PC PCC PG PORTLAND CEMENT 277/480V PANEL VRV VACUUM RELIEF VALVE PORTLAND CEMENT CONCRETE GND GROUND STRAINER PRESSURE GAS FUSED DISCONNECT *HIGH LIGHT STANDARD NORMALLY CLOSED PL PO W/O WITHOUT PROPERTY LINE/PIPE LINE GW GROUNDWATER WATER SURFACE/WATER STOP PUMP OUT GATE VALVE TRAP NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION REVISION TO PLANS NON-FUSED (AF) FILTER CAMLOCK CONNECTION INSTRUMENTATION ABBREVIATIONS AND SYMBOLS NO NORMALLY OPEN DIAMETER VERTICAL PIPERUN OL OVERLOADS STANDARD SYMBOLS PBS PUSHBUTTON INSTRUMENT LEGEND **INSTRUMENT SYMBOLS** DETAIL NUMBER **GENERAL NOTES** PL PLC CURRENT 36 PROGRAMMABLE LOGIC CONTROLLER FIRST LETTER SUCCEEDING LETTERS SYMBOI DESCRIPTION REFERENCE INITIATING VARIABLE RIGID CONDUIT RECEPTACLE RCPT M 1. A COPY OF THE PROJECT DESIGN DRAWINGS AND SPECIFICATIONS SHALL BE MAINTAINED ON THE JOB SITE AT ALL TIMES. MOTOR SOLID NEUTRAL 2. COPIES OF ALL PERMITS SHALL BE MAINTAINED ON THE JOB SITE AT ALL TIMES. THE CONTRACTOR SHALL COMPLY WITH SINGLE POLE (HOA) HAND-OFF-ALITO ANALYSIS ALARM ST SW SELECTOR SWITCH BURNER CONDUCTIVITY CONTROL 3. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS DENSITY POTENTIAL (VOLTS) DIFFERENTIAL PRIMARY ELEMENT TF/TRAN TRANSFORMER LOCALLY MOUNTED INSTRUMENT 4.BURIED UTILITIES SHOWN ON THE DRAWINGS ARE FOR GENERAL INFORMATION ONLY. UTILITY LOCATIONS ARE FLOW RATE RATIO (FRACTION) APPROXIMATE AND MAY NOT BE INCLUSIVE OF ALL UTILITIES THAT EXIST ON THE PROPERTY GLASS (SIGHT GAUGE) UG UNDERGROUND HAND (MANUALLY) INDICATE 5. THE CONTRACTOR SHALL HAVE A PRIVATE UTILITY LOCATE SERVICE VERIFY ALL UTILITIES AND MARK THEIR LOCATIONS ON CONTROL PANEL THE GROUND PRIOR TO STARTING CONSTRUCTION. FARALLON SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT IS POWER VFD VARIABLE FREQUENCY DRIVE MOUNTED INSTRUMENT FOUND BETWEEN EXISTING UTILITIES AND THE PROJECT DESIGN VAPOR PROOF LEVE MOISTURE/HUMIDITY LIGHT (PILOT) 6.FARALLON SHALL BE NOTIFIED OF DISCREPANCIES BETWEEN CONTRACT DRAWINGS AND ACTUAL SITE CONDITIONS. INTERLOCK WEATHER PROOF WP POINT (TEST CONNECTION PRESSURE/VACUUM 7. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE JOB SITE CONDITIONS AND ENSURE THE SAFETY OF ALL INTEGRATE (TOTALIZE) EXPLOSION PROOF PERSONS AND PROPERTY FOR THE DURATION OF ON SITE PROJECT WORK. THE CONTRACTOR SHALL PROTECT RECORD/PRINT SPEED TEMPERATURE PLC SHUTDOWN ALARM STRUCTURES LITHITIES AND PAVING FROM DAMAGE DIRECT OR INDIRECT RESULTING FROM THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY OVER THE DURATION OF ON SITE ACTIVITIES AND NOT BE LIMITED TO MULTIVARIABLE MULTIFUNCTION WEIGHT/FORCE/TORQUE 8. ALL EXCAVATIONS SHALL BE PERFORMED IN STRICT ACCORDANCE WITH APPLICABLE U.S. DEPARTMENT OF LABOR UNCLASSIFIED UNCLASSIFIED OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND THE WASHINGTON INDUSTRIAL SAFETY AND HEALTH RELAY/COMPUTE ACT (WISHA) REGULATIONS. THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR THE SAFETY OF ALL CONSTRUCTION POSITION DRIVE/ACTUATE 9.NO TRENCHES SHALL BE LEFT OPEN WHEN WORK IS NOT IN PROGRESS. ALL OPEN EXCAVATIONS SHALL BE FENCED.

9/25/14

DATE

ISSUED FOR CLIENT REVIEW

DESCRIPTION

CM/DEW

CM

CKD.

APP.

PREPARED FOR

CAPITAL INDUSTRIES, INC.

5801 3RD AVE SOUTH

SEATTLE, WA 98108

FARALLON Oakland | Sacramento | Irvine

Quality Service for Environmental Solutions | farallonconsulting.com

SUB-SLAB DEPRESSURIZATION SYSTEM AS SHOWN

GENERAL NOTES,

LEGEND.SYMBOLS.

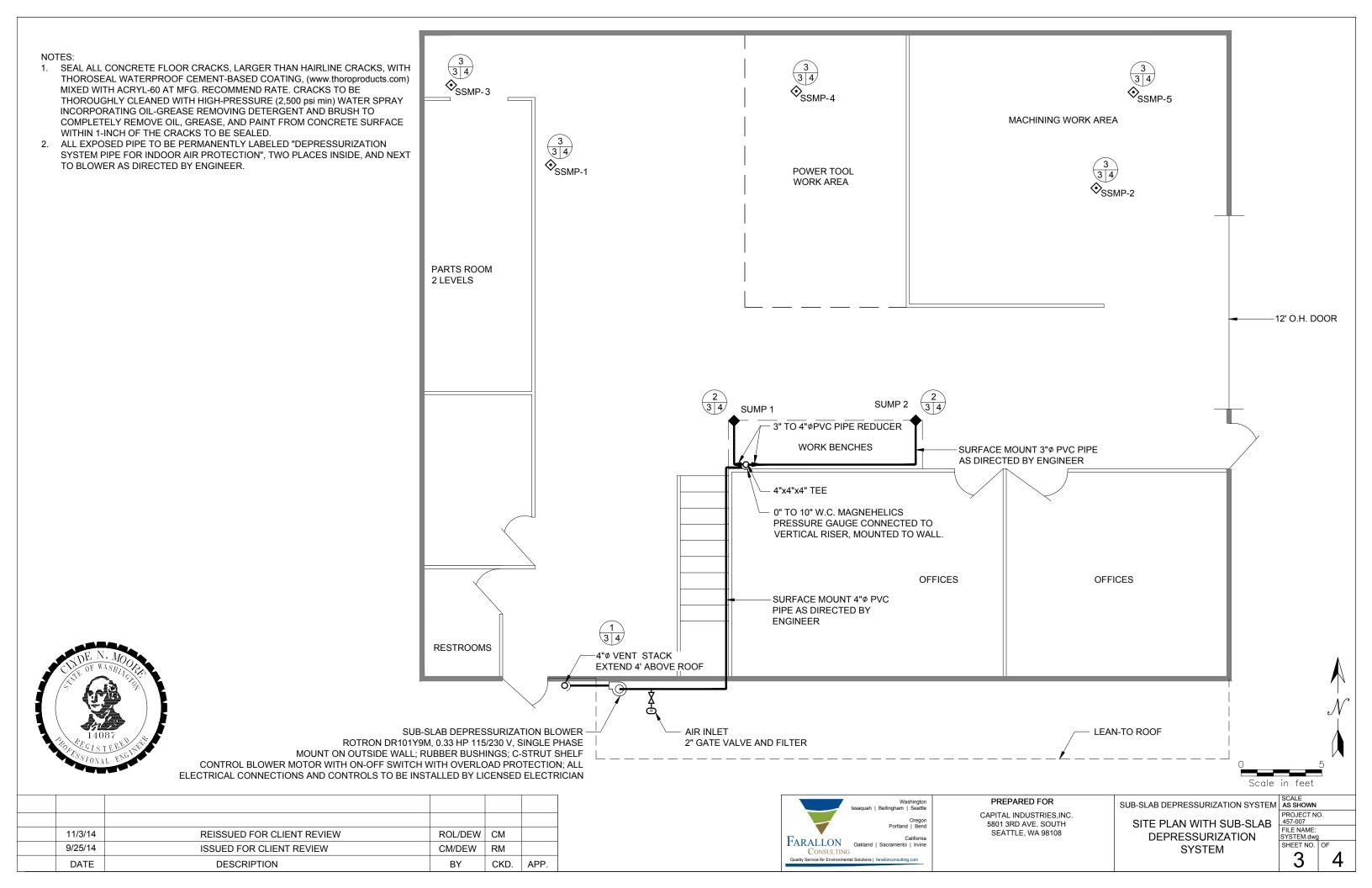
AND ABBREVIATIONS

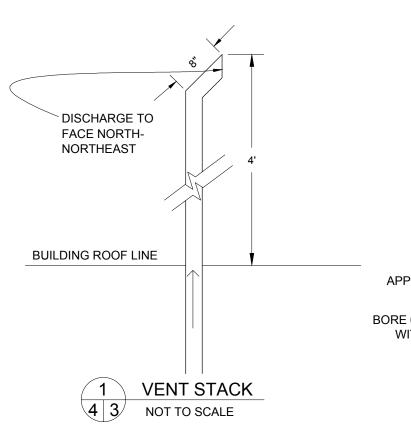
PROJECT NO 457-007

FILE NAME:

SYSTEM.dw

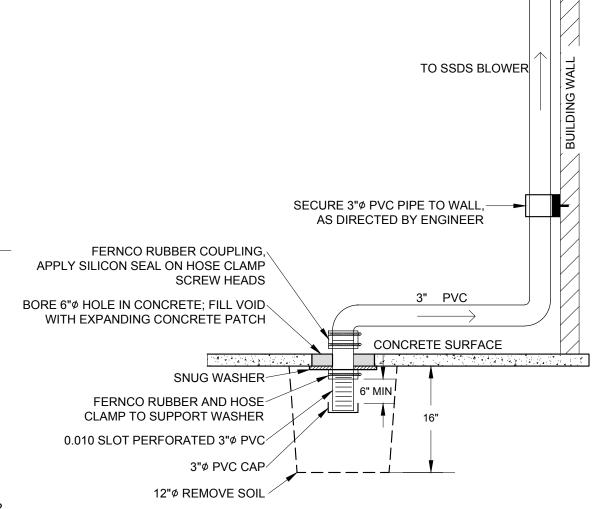
SHEET NO. OF





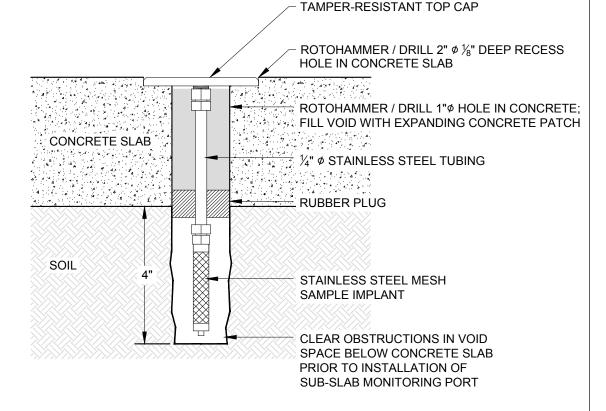
NOTE:

- 1. VENT STACK TO BUILDING SUPPORT CONNECTIONS TO BE APPROVED BY ENGINEER
- VENT TO BE LOCATED AT LEAST 10 FT FROM CLOSEST SIDE OF ANY DOOR, WINDOW, OR OTHER OPENING INTO BUILDING INTERIOR, AND TO HVAC/VENTILATION INLET.



SUMP DETAIL

NOT TO SCALE





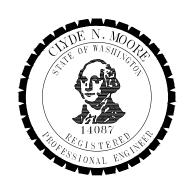
SUB-SLAB MONITORING PORT

3/ NOT TO SCALE

NOTE:

- 1. AMS SUB-SLAB GAS VAPOR PROBE INSTALLED FOR SUB-SLAB MONITORING PORT. INSTALLED TO VENDOR SPECIFICATIONS.
- 2. INSTALL SUB-SLAB MONITORING PORT WHERE IT WILL BE PROTECTED FROM DAMAGE AND ACCESSIBLE DURING SUB-SLAB MONITORING EVENTS.
- 3. DO NOT INSTALL NEAR DOOR, EXTERIOR WALL NOR NEAR CRACK IN SLAB.

SEATTLE, WA 98108



11/3/14	REISSUED FOR CLIENT REVIEW	ROL/DEW	СМ	
9/25/14	ISSUED FOR CLIENT REVIEW	CM/DEW	RM	
DATE	DESCRIPTION	BY	CKD.	APP.



PREPARED FOR

CAPITAL INDUSTRIES,INC.
5801 3RD AVE. SOUTH

SUB-SLAB DEPRESSURIZATION SYSTEM AS SHOWN
PROJECT NO. 457-007

AS SHOWN
PROJECT NO.
457-007
FILE NAME:
SYSTEM.dwg
SHEET NO. OF

DETAILS

Analytical Laboratory Reports



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Farallon Consulting Jen Moore 975 5th Ave NW Issaquah, WA 98027

RE: Capital Industries

Work Order Number: 2003352

March 30, 2020

Attention Jen Moore:

Fremont Analytical, Inc. received 4 sample(s) on 3/20/2020 for the analyses presented in the following report.

Volatile Organic Compounds-EPA Method TO-15 (SIM)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

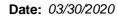
All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD/ELAP Certification #L17-135, ISO/IEC 17025:2005 ORELAP Certification: WA 100009-007 (NELAP Recognized)





CLIENT: Farallon Consulting Work Order Sample Summary

Project: Capital Industries
Work Order: 2003352

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2003352-001	5815N-IA8-031920	03/19/2020 4:50 PM	03/20/2020 2:25 PM
2003352-002	5815N-OA1-031920	03/19/2020 5:10 PM	03/20/2020 2:25 PM
2003352-003	5815N-IA1-031920	03/19/2020 4:51 PM	03/20/2020 2:25 PM
2003352-004	5815N-INFLUENT-031920	03/19/2020 10:00 AM	03/20/2020 2:25 PM



Case Narrative

WO#: **2003352**Date: **3/30/2020**

CLIENT: Farallon Consulting
Project: Capital Industries

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Air samples are reported in ppbv and ug/m3.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Standard temperature and pressure assumes 24.45 = (25C and 1 atm).



Qualifiers & Acronyms

WO#: **2003352**

Date Reported: 3/30/2020

Qualifiers:

- * Flagged value is not within established control limits
- B Analyte detected in the associated Method Blank
- D Dilution was required
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- I Analyte with an internal standard that does not meet established acceptance criteria
- J Analyte detected below Reporting Limit
- N Tentatively Identified Compound (TIC)
- Q Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S Spike recovery outside accepted recovery limits
- ND Not detected at the Reporting Limit
- R High relative percent difference observed

Acronyms:

%Rec - Percent Recovery

CCB - Continued Calibration Blank

CCV - Continued Calibration Verification

DF - Dilution Factor

HEM - Hexane Extractable Material

ICV - Initial Calibration Verification

LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate

MB or MBLANK - Method Blank

MDL - Method Detection Limit

MS/MSD - Matrix Spike / Matrix Spike Duplicate

PDS - Post Digestion Spike

Ref Val - Reference Value

RL - Reporting Limit

RPD - Relative Percent Difference

SD - Serial Dilution

SGT - Silica Gel Treatment

SPK - Spike

Surr - Surrogate



WorkOrder: 2003352

Project: Capital Industries

 Client Sample ID:
 5815N-IA8-031920
 Date Sampled:
 3/19/2020

 Lab ID:
 2003352-001A
 Date Received:
 3/20/2020

Analyte	Concen	tration	Reportir	ng Limit	Qual	Method	Date/Analy	st
Volatile Organic Compounds-EPA	Method TO-15	(SIM)						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	<0.00900	< 0.0357	0.00900	0.0357		EPA-TO-15SIM	03/27/2020	AD
cis-1,2-Dichloroethene	<0.0200	<0.0793	0.0200	0.0793		EPA-TO-15SIM	03/27/2020	AD
Tetrachloroethene (PCE)	0.0882	0.598	0.0500	0.339		EPA-TO-15SIM	03/27/2020	AD
trans-1,2-Dichloroethene	<0.00600	<0.0238	0.00600	0.0238		EPA-TO-15SIM	03/27/2020	AD
Trichloroethene (TCE)	0.266	1.43	0.0170	0.0914		EPA-TO-15SIM	03/27/2020	AD
Vinyl chloride	< 0.0850	<0.217	0.0850	0.217		EPA-TO-15SIM	03/27/2020	AD
Surr: 4-Bromofluorobenzene	103 %Rec		70-130			EPA-TO-15SIM	03/27/2020	AD



WorkOrder: 2003352

Project: Capital Industries

 Client Sample ID:
 5815N-OA1-031920
 Date Sampled:
 3/19/2020

 Lab ID:
 2003352-002A
 Date Received:
 3/20/2020

Analyte	Concent	ration	Reportir	ng Limit	Qual	Method	Date/Analy	st
Volatile Organic Compounds-EPA	A Method TO-15	(SIM)						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	<0.00900	< 0.0357	0.00900	0.0357		EPA-TO-15SIM	03/27/2020	AD
cis-1,2-Dichloroethene	<0.0200	< 0.0793	0.0200	0.0793		EPA-TO-15SIM	03/27/2020	AD
Tetrachloroethene (PCE)	<0.0500	< 0.339	0.0500	0.339		EPA-TO-15SIM	03/27/2020	AD
trans-1,2-Dichloroethene	0.00784	0.0311	0.00600	0.0238		EPA-TO-15SIM	03/27/2020	AD
Trichloroethene (TCE)	<0.0170	< 0.0914	0.0170	0.0914		EPA-TO-15SIM	03/27/2020	AD
Vinyl chloride	<0.0850	<0.217	0.0850	0.217		EPA-TO-15SIM	03/27/2020	AD
Surr: 4-Bromofluorobenzene	96.5 %Rec		70-130			EPA-TO-15SIM	03/27/2020	AD



WorkOrder: 2003352

Project: Capital Industries

 Client Sample ID:
 5815N-IA1-031920
 Date Sampled:
 3/19/2020

 Lab ID:
 2003352-003A
 Date Received:
 3/20/2020

Analyte	Concent	tration	Reportir	ng Limit	Qual	Method	Date/Analy	st
Volatile Organic Compounds-EPA	Method TO-15	(SIM)						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	0.0206	0.0815	0.00900	0.0357		EPA-TO-15SIM	03/27/2020	AD
cis-1,2-Dichloroethene	0.527	2.09	0.0200	0.0793		EPA-TO-15SIM	03/27/2020	AD
Tetrachloroethene (PCE)	0.0701	0.475	0.0500	0.339		EPA-TO-15SIM	03/27/2020	AD
trans-1,2-Dichloroethene	0.0725	0.287	0.00600	0.0238		EPA-TO-15SIM	03/27/2020	AD
Trichloroethene (TCE)	1.03	5.52	0.0170	0.0914		EPA-TO-15SIM	03/27/2020	AD
Vinyl chloride	< 0.0850	<0.217	0.0850	0.217		EPA-TO-15SIM	03/27/2020	AD
Surr: 4-Bromofluorobenzene	99.0 %Rec		70-130			EPA-TO-15SIM	03/27/2020	AD



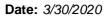
WorkOrder: 2003352

Project: Capital Industries

 Client Sample ID:
 5815N-INFLUENT-031920
 Date Sampled:
 3/19/2020

 Lab ID:
 2003352-004A
 Date Received:
 3/20/2020

Analyte	Concen	tration	Reportir	ng Limit	Qual	Method	Date/Analy	⁄st
Volatile Organic Compounds-El	PA Method TO-15	5 (SIM)						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	<0.00900	< 0.0357	0.00900	0.0357		EPA-TO-15SIM	03/28/2020	AD
cis-1,2-Dichloroethene	0.580	2.30	0.0200	0.0793		EPA-TO-15SIM	03/28/2020	AD
Tetrachloroethene (PCE)	14.4	98.0	0.0500	0.339		EPA-TO-15SIM	03/28/2020	AD
trans-1,2-Dichloroethene	0.0271	0.108	0.00600	0.0238		EPA-TO-15SIM	03/28/2020	AD
Trichloroethene (TCE)	16.3	87.4	0.170	0.914		EPA-TO-15SIM	03/28/2020	AD
Vinyl chloride	<0.0850	<0.217	0.0850	0.217		EPA-TO-15SIM	03/28/2020	AD
Surr: 4-Bromofluorobenzene	114 %Rec		70-130			EPA-TO-15SIM	03/28/2020	AD





Work Order: 2003352

QC SUMMARY REPORT

CLIENT: Farallon Consulting

Volatile Organic Compounds-EPA Method TO-15 (SIM)

Project: Capital Indu	ıstries				V	olatile Or	rganic C	compounds	s-EPA Met	hod TO-1	5 (SI
Sample ID: LCS-R58313	SampType: LCS			Units: ppbv		Prep Date	e: 3/27/20	20	RunNo: 583	313	
Client ID: LCSW	Batch ID: R58313					Analysis Date	e: 3/27/20	20	SeqNo: 116	55312	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	2.18	0.0850	2.000	0	109	70	130				
1,1-Dichloroethene (DCE)	1.77	0.00900	2.000	0	88.3	70	130				
trans-1,2-Dichloroethene	1.86	0.00600	2.000	0	92.8	70	130				
cis-1,2-Dichloroethene	1.65	0.0200	2.000	0	82.6	70	130				
Trichloroethene (TCE)	1.76	0.0170	2.000	0	88.0	70	130				
Tetrachloroethene (PCE)	1.90	0.0500	2.000	0	95.0	70	130				
Surr: 4-Bromofluorobenzene	4.15		4.000		104	70	130				
Sample ID: MB-R58313	SampType: MBLK			Units: ppbv		Prep Date	e: 3/27/20	20	RunNo: 583	313	
Client ID: MBLKW	Batch ID: R58313					Analysis Date	e: 3/27/20	20	SeqNo: 116	55313	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.0850									
1,1-Dichloroethene (DCE)	ND	0.00900									
trans-1,2-Dichloroethene	ND	0.00600									
cis-1,2-Dichloroethene	ND	0.0200									
Trichloroethene (TCE)	ND	0.0170									
Tetrachloroethene (PCE)	ND	0.0500									
Surr: 4-Bromofluorobenzene	3.46		4.000		86.4	70	130				
Sample ID: 2003352-001AREP	SampType: REP			Units: ppbv		Prep Date	e: 3/27/20	20	RunNo: 583	313	
Client ID: 5815N-IA8-031920	Batch ID: R58313					Analysis Date	e: 3/27/20	20	SeqNo: 116	55317	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Vinyl chloride	ND	0.0850						0		30	
1,1-Dichloroethene (DCE)	ND	0.00900						0		30	
trans-1,2-Dichloroethene	ND	0.00600						0		30	
cis-1,2-Dichloroethene	ND	0.0200						0		30	
Trichloroethene (TCE)	0.272	0.0170						0.2662	2.23	30	
Tetrachloroethene (PCE)	0.0652	0.0500						0.08823	30.0	30	

Page 9 of 13

Date: 3/30/2020



Work Order: 2003352

QC SUMMARY REPORT

CLIENT: Farallon Consulting
Project: Capital Industries

Volatile Organic Compounds-EPA Method TO-15 (SIM)

Client ID: 5815N-IA8-031920 Batch ID: R58313 Analysis Date: 3/27/2020 SeqNo: 1165317

Analyte Result RL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Surr: 4-Bromofluorobenzene 3.90 4.000 97.6 70 130 0

Original Page 10 of 13



Sample Log-In Check List

Cli	ient Name:	FARA	Work Order Numl	ber: 2003352	
Lo	gged by:	Carissa True	Date Received:	3/20/2020	2:25:00 PM
<u>Cha</u>	in of Custo	ody			
1.	Is Chain of C	ustody complete?	Yes 🗸	No \square	Not Present
2.	How was the	sample delivered?	Courier		
Log	In				
_	— Coolers are p	present?	Yes	No 🗸	NA 🗆
0.			Air samples		
4.	Shipping con	tainer/cooler in good condition?	Yes 🗸	No 🗌	
		ls present on shipping container/cooler? nments for Custody Seals not intact)	Yes	No 🗹	Not Required
6.	Was an atten	npt made to cool the samples?	Yes	No \square	NA 🗹
7.	Were all item	s received at a temperature of >2°C to 6°C *	Yes	No 🗆	NA 🗸
8.	Sample(s) in	proper container(s)?	Yes 🗸	No 🗆	
9.	Sufficient sar	nple volume for indicated test(s)?	Yes 🗸	No 🗆	
10.	Are samples	properly preserved?	Yes 🗸	No 🗌	
11.	Was preserva	ative added to bottles?	Yes	No 🗸	NA \square
12	Is there head	space in the VOA vials?	Yes	No 🗆	NA 🗹
		es containers arrive in good condition(unbroken)?	Yes 🗸	No 🗌	
		ork match bottle labels?	Yes 🗸	No 🗌	
15	Are matrices	correctly identified on Chain of Custody?	Yes 🗸	No 🗆	
_		at analyses were requested?	Yes ✓	No \square	
		ing times able to be met?	Yes 🗸	No 🗌	
Sne	cial Handl	ing (if applicable)			
-		otified of all discrepancies with this order?	Yes 🗸	No \square	na 🗆
۱۵.				INU L	INA L
	Person	Notified: Jen Moore Date:	ja.	3/20/2020	
	By Who			none Fax	☐ In Person
	Regardi		031920		
	Client Ir	nstructions: 15893 - See updated COC			

19. Additional remarks:

Item Information

Original

^{*} Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Same Day (knecify)				Date/ Illie	200						MECENACIA	× 3						1
2 Day Next Day	<i>147</i>	3170170	8	3)	. \				27	>	× ×	73 ×	0830		3/2017p	D.	athour	x Messed
3 Day	that I have verified Client's agreement to each of the	Client's agree	rified (ve vei	I hav	that	bove,	ned at	lient nan	of the Cl	n behalf (nalytical o	remont An	nent with Fi	reement.	d to enter inte e of this Agre	I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, terms on the front and backside of this Agreement. Dato/Time	I represent the terms on the f
Turn-Around Time:			Bag	TB = Tedlar Bag	TB = T		nt Tub	S = Sorbent Tube		F = Filter	re Cylinder	CYL = High Pressure Cylinder		L Car	Canister		s: BV = 1 Liter Bottle Vac	** Container Codes:
			-			-	+		alle		1	il Gas	S = Subslab / Soil Gas	Landfill S = S	-	IA = Indoor Air	AA = Ambient Air	* Matrix Codes:
λ,								Piesbure		77703510	10mtorr 3/12/2020	8 Hr	6L	100	17,488			
5						>		4.0	1 1	3/4/10	10mtorr 3/12/2020	# Crab	6L	きかい	3/19/20	17240 FR8-33	WENT-OSKED	SSISN-INFWENT-ONED
&			_					4/2	W W	2/18/15	10mtorr 7/12/2020 3/12/2020	8 Hr	19	AHA	3/19/20	17640 	1-031920	58150-TA1-031920
8						><		1/20	1 de	0.05	10mtorr	8 Hr	61	AN	3/19/20	17236 % 172664 1786-02		581511-021-031920
6	×					>		14/20	W die	3/14/2	10mtorr	8 Hr	19	ANT ANT	3/19/20	17649 PR8-30 FR8-30	8-031920	5815.N-IA8-031920
Final Pressure ("Hg)	Comments	Helium Major Gases 3C	Sulfur Ext. TO15 APH TO15	Sulfur TO15	Siloxanes TO15	VOCS TO 15 SIM 🗶	VOCs TO15 SCAN LL	Table Senatoral Service	tial Field Final e Sample e Pressure ("Hg)	Field Initial Sample Pressure ("'Hg)	Initial Evacuation Pressure (mtorr)	Fill Time / Flow Rate	Container Type **	Sample Type (Matrix) *	Sample Date & Time	Canister / Flow Reg Serial #	Name	Sample Name
Internal			Sis	Analysis		W.		אַרוּגאַ	CONS	Auca	INCOPER FARALLINCONSULTAGE CO		Email (PM):			0880	475-295-8	Fax: 4Zs
s submitted to client unless Hold (fees may apply)	Air samples are disposed of one week after report is submitted to client unless otherwise requested. OK to Dispose Hold (fees may apply)	Air samples are disposed o otherwise requested.	Air sampi otherwise	8					þ	Moore	H	PM):	Reports to (PM):			8œ	115-295-0800	Telephone: 47
								W	straw	Q	your	N	Collected by:	7	9802	جريد (جريد)	Shanker	City, State, Zip: Tespywhy
Chloride	Lyn, A	200	-		1				Ā	3	xeattle,	Sea	Location:			الحالحا	5th Ave	Address: 975
3	1,2-00	12 (S) (S)	7,2							8	157-cex	Ħ	Project No:				on	Client: Farallon
following:	3	Remarks: * W	Special			***	of:	O7	Page:	Jw Jw	120	0 5	Date:	Tel: 206-352-3790 Fax: 206-352-7178		A PATOLINATINO I	A)	
Agreement	Laboratory Services Agreement	& Laboratory	Qo	Record	900	R	bc	Custody	of Cu	Chain	Air Ch			3600 Fremont Ave N. Seattle, WA 98103	3600 Frei Seattle			

58151/ETA1-031920 5815N-091-031926 ** Container Codes: BV = 1 Liter Bottle Vac 5815N-IA8-031920 Matrix Codes: WOLV - INFURNITIONS terms on the front and backside of this Agreement. Telephone: city, state, zip: Tessayush, WA, 98227 Address: Client: I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the 975 St Are NV Farallon Sample Name 9580-562-521 125-295-080e remont AA = Ambient Air Teorgan Trans 15893 12064 ではいったい 地本 Canister / Flow 17640 FR8-33 FR8-30 17649 Reg Serial # IA = Indoor Air FV-5 6L = 6L Canister Date/Time 3/19/20 STOJE 0000 3/19/20 Sample Date & Time 1651 02/bile 3/19/20 1710 3600 Fremont Ave N. L = Landfill Seattle, WA 98103 Tel: 206-352-3790 Fax: 206-352-7178 1L = 1L Canister Sample Type (Matrix) * 736 S = Subslab / Soil Gas 000 Email (PM): JMCEREC FAGHLONCONSOCTNOCOM Collected by: Ryown Date: Reports to (PM): Container
Type *** Project Name: Capted Industries Location: Project No: 19 19 19 19 19 CYL = High Pressure Cylinder Caro 8 Hr 8 Hr Fill Time / Flow Rate 8 Hr 8 Hr Secretic, SH * MW M 800-63H 3/12/2020 3/12/2020 3/12/2020 3/12/2020 10mtorr 3/12/2020 10mtorr 10mtorr Evacuation Pressure (mtorr) Air Chain of Custody Record & Laboratory Services Agreement 10mtorr 10mtorr 3/14/2 "Moore 3/19/20 3/19/2 50,0 Ostlone Blank. 200 2/18/16 0.08 F = Filter Pressure ("Hg) 30:0 Sample Field initia 3/4/2 3/14/20 Field Final Sample Pressure (" Hg) S = Sorbent TubeVOCS TO15 SCAN LL VOCs TO15 SIM TB = Tedlar Bag 211 M 101 102 14 18 Cdits by Jm. by (12+ 3|23

Air samples are disposed from week after report is submitted to client unless Sulfur Ext. TO15 otherwise requested. PLE, TCE) Cis 1,2-02E, trans 1,2 1,1-DCE; and Viny Chloride Special Remarks: * Only Analyze for following: Laboratory Project No (Internal): APH TO15 Helium Major Gases 3C OK to Dispose 2003352 Comments ☐ Hold (fees may apply) 2 Day Standard Same Day Next Day ___ 3 Daγ Turn-Around Time: (specify) 50 8 Final Pressure ("Hg) Internal Page 13 of 13



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Farallon Consulting Jen Moore 975 5th Ave NW Issaquah, WA 98027

RE: Capital Industries

Work Order Number: 2003353

March 30, 2020

Attention Jen Moore:

Fremont Analytical, Inc. received 4 sample(s) on 3/20/2020 for the analyses presented in the following report.

Volatile Organic Compounds-EPA Method TO-15 (SIM)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

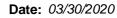
All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD/ELAP Certification #L17-135, ISO/IEC 17025:2005 ORELAP Certification: WA 100009-007 (NELAP Recognized)





CLIENT: Farallon Consulting Work Order Sample Summary

Project: Capital Industries

Work Order: 2003353

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2003353-001	5900-IA1-031920	03/19/2020 3:50 PM	03/20/2020 2:25 PM
2003353-002	5900-IA3-031920	03/19/2020 3:55 PM	03/20/2020 2:25 PM
2003353-003	5900-OA2-031920	03/19/2020 4:45 PM	03/20/2020 2:25 PM
2003353-004	5900-INFLUENT-031920	03/19/2020 10:55 AM	03/20/2020 2:25 PM



Case Narrative

WO#: **2003353**Date: **3/30/2020**

CLIENT: Farallon Consulting
Project: Capital Industries

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Air samples are reported in ppbv and ug/m3.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Standard temperature and pressure assumes 24.45 = (25C and 1 atm).



Qualifiers & Acronyms

WO#: **2003353**

Date Reported: 3/30/2020

Qualifiers:

- * Flagged value is not within established control limits
- B Analyte detected in the associated Method Blank
- D Dilution was required
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- I Analyte with an internal standard that does not meet established acceptance criteria
- J Analyte detected below Reporting Limit
- N Tentatively Identified Compound (TIC)
- Q Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S Spike recovery outside accepted recovery limits
- ND Not detected at the Reporting Limit
- R High relative percent difference observed

Acronyms:

%Rec - Percent Recovery

CCB - Continued Calibration Blank

CCV - Continued Calibration Verification

DF - Dilution Factor

HEM - Hexane Extractable Material

ICV - Initial Calibration Verification

LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate

MB or MBLANK - Method Blank

MDL - Method Detection Limit

MS/MSD - Matrix Spike / Matrix Spike Duplicate

PDS - Post Digestion Spike

Ref Val - Reference Value

RL - Reporting Limit

RPD - Relative Percent Difference

SD - Serial Dilution

SGT - Silica Gel Treatment

SPK - Spike

Surr - Surrogate



WorkOrder: 2003353

Project: Capital Industries

 Client Sample ID:
 5900-IA1-031920
 Date Sampled:
 3/19/2020

 Lab ID:
 2003353-001A
 Date Received:
 3/20/2020

Analyte	Concen	tration	Reportir	ng Limit	Qual	Method	Date/Analy	st
Volatile Organic Compounds-EP	A Method TO-15							
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	<0.00900	< 0.0357	0.00900	0.0357		EPA-TO-15SIM	03/28/2020	AD
cis-1,2-Dichloroethene	<0.0200	<0.0793	0.0200	0.0793		EPA-TO-15SIM	03/28/2020	AD
Tetrachloroethene (PCE)	0.0605	0.411	0.0500	0.339		EPA-TO-15SIM	03/28/2020	AD
trans-1,2-Dichloroethene	<0.00600	<0.0238	0.00600	0.0238		EPA-TO-15SIM	03/28/2020	AD
Trichloroethene (TCE)	0.0397	0.213	0.0170	0.0914		EPA-TO-15SIM	03/28/2020	AD
Vinyl chloride	<0.0850	<0.217	0.0850	0.217		EPA-TO-15SIM	03/28/2020	AD
Surr: 4-Bromofluorobenzene	95.2 %Rec		70-130			EPA-TO-15SIM	03/28/2020	AD



WorkOrder: 2003353

Project: Capital Industries

 Client Sample ID:
 5900-IA3-031920
 Date Sampled:
 3/19/2020

 Lab ID:
 2003353-002A
 Date Received:
 3/20/2020

Analyte	Concen	tration	Reportir	ng Limit	Qual	Method	Date/Analy	st
Volatile Organic Compounds-EPA								
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	< 0.00900	< 0.0357	0.00900	0.0357		EPA-TO-15SIM	03/28/2020	AD
cis-1,2-Dichloroethene	<0.0200	<0.0793	0.0200	0.0793		EPA-TO-15SIM	03/28/2020	AD
Tetrachloroethene (PCE)	0.108	0.734	0.0500	0.339		EPA-TO-15SIM	03/28/2020	AD
trans-1,2-Dichloroethene	0.00677	0.0268	0.00600	0.0238		EPA-TO-15SIM	03/28/2020	AD
Trichloroethene (TCE)	0.0328	0.176	0.0170	0.0914		EPA-TO-15SIM	03/28/2020	AD
Vinyl chloride	<0.0850	<0.217	0.0850	0.217		EPA-TO-15SIM	03/28/2020	AD
Surr: 4-Bromofluorobenzene	107 %Rec		70-130			EPA-TO-15SIM	03/28/2020	AD



WorkOrder: 2003353

Project: Capital Industries

 Client Sample ID:
 5900-OA2-031920
 Date Sampled:
 3/19/2020

 Lab ID:
 2003353-003A
 Date Received:
 3/20/2020

Analyte	Concentration F		Reportir	ng Limit	Qual	Method	Date/Analy	st
Volatile Organic Compounds-EPA								
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	<0.00900	< 0.0357	0.00900	0.0357		EPA-TO-15SIM	03/28/2020	AD
cis-1,2-Dichloroethene	<0.0200	< 0.0793	0.0200	0.0793		EPA-TO-15SIM	03/28/2020	AD
Tetrachloroethene (PCE)	1.30	8.83	0.0500	0.339		EPA-TO-15SIM	03/28/2020	AD
trans-1,2-Dichloroethene	<0.00600	<0.0238	0.00600	0.0238		EPA-TO-15SIM	03/28/2020	AD
Trichloroethene (TCE)	< 0.0170	<0.0914	0.0170	0.0914		EPA-TO-15SIM	03/28/2020	AD
Vinyl chloride	< 0.0850	<0.217	0.0850	0.217		EPA-TO-15SIM	03/28/2020	AD
Surr: 4-Bromofluorobenzene	97.3 %Rec		70-130			EPA-TO-15SIM	03/28/2020	AD



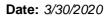
WorkOrder: 2003353

Project: Capital Industries

 Client Sample ID:
 5900-INFLUENT-031920
 Date Sampled:
 3/19/2020

 Lab ID:
 2003353-004A
 Date Received:
 3/20/2020

Analyte	Concen	tration	Reportir	ng Limit	Qual	Method	Date/Analy	⁄st
Volatile Organic Compounds-El	PA Method TO-15	5 (SIM)						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	<0.00900	< 0.0357	0.00900	0.0357		EPA-TO-15SIM	03/28/2020	AD
cis-1,2-Dichloroethene	0.0446	0.177	0.0200	0.0793		EPA-TO-15SIM	03/28/2020	AD
Tetrachloroethene (PCE)	0.0879	0.596	0.0500	0.339		EPA-TO-15SIM	03/28/2020	AD
trans-1,2-Dichloroethene	<0.00600	<0.0238	0.00600	0.0238		EPA-TO-15SIM	03/28/2020	AD
Trichloroethene (TCE)	0.0977	0.525	0.0170	0.0914		EPA-TO-15SIM	03/28/2020	AD
Vinyl chloride	<0.0850	<0.217	0.0850	0.217		EPA-TO-15SIM	03/28/2020	AD
Surr: 4-Bromofluorobenzene	108 %Rec		70-130			EPA-TO-15SIM	03/28/2020	AD





Work Order: 2003353

QC SUMMARY REPORT

CLIENT: Farallon Consulting

Project: Capital Inc	dustries					V	Joiathe Of	yanıc C	compounds	-LFA WIEL	104 10-1	J (J
Sample ID: LCS-R58313	SampType:	LCS			Units: ppbv		Prep Date	e: 3/27/20	20	RunNo: 583	313	
Client ID: LCSW	Batch ID:	R58313					Analysis Date	e: 3/27/20	20	SeqNo: 116	5312	
Analyte	Re	esult	RL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	2	2.18 0.	0850	2.000	0	109	70	130				
1,1-Dichloroethene (DCE)	•	1.77 0.0	0900	2.000	0	88.3	70	130				
trans-1,2-Dichloroethene	•	1.86 0.0	0600	2.000	0	92.8	70	130				
cis-1,2-Dichloroethene	•	1.65 0.	0200	2.000	0	82.6	70	130				
Trichloroethene (TCE)	•	1.76 0.	0170	2.000	0	88.0	70	130				
Tetrachloroethene (PCE)	•	1.90 0.	0500	2.000	0	95.0	70	130				
Surr: 4-Bromofluorobenzene	4	4.15		4.000		104	70	130				
Sample ID: MB-R58313	SampType:	MBLK			Units: ppbv		Prep Date	e: 3/27/20	20	RunNo: 583	313	
Client ID: MBLKW	Batch ID:	R58313					Analysis Date	e: 3/27/20	20	SeqNo: 116	5313	
Analyte	Re	esult	RL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Vinyl chloride		ND 0.	0850									
1,1-Dichloroethene (DCE)		ND 0.0	0900									
trans-1,2-Dichloroethene		ND 0.0	0600									
cis-1,2-Dichloroethene		ND 0.	0200									
Trichloroethene (TCE)		ND 0.	0170									
Tetrachloroethene (PCE)		ND 0.	0500									
Surr: 4-Bromofluorobenzene	;	3.46		4.000		86.4	70	130				
Sample ID: 2003352-001AREP	SampType:	REP			Units: ppbv		Prep Date	e: 3/27/20	20	RunNo: 583	313	
Client ID: BATCH	Batch ID:	R58313					Analysis Date	e: 3/27/20	20	SeqNo: 116	5317	
Analyte	Re	esult	RL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Vinyl chloride		ND 0.	0850						0		30	
1,1-Dichloroethene (DCE)		ND 0.0	0900						0		30	
trans-1,2-Dichloroethene		ND 0.0	0600						0		30	
cis-1,2-Dichloroethene		ND 0.	0200						0		30	
Trichloroethene (TCE)	0.	.272 0.	0170						0.2662	2.23	30	
Tetrachloroethene (PCE)	0.0	0652 0.	0500						0.08823	30.0	30	

Page 9 of 12

Date: 3/30/2020



Work Order: 2003353

QC SUMMARY REPORT

CLIENT: Farallon Consulting
Project: Capital Industries

Volatile Organic Compounds-EPA Method TO-15 (SIM)

Client ID: BATCH Batch ID: R58313 Analysis Date: 3/27/2020 SeqNo: 1165317

Analyte Result RL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Surr: 4-Bromofluorobenzene 3.90 4.000 97.6 70 130 0

Original Page 10 of 12



Sample Log-In Check List

CI	ient Name:	FARA	Work Order Numb	per: 2003353	
Lo	gged by:	Carissa True	Date Received:	3/20/2020 2	2:25:00 PM
<u>Cha</u>	in of Cust	<u>ody</u>			
1.	Is Chain of C	sustody complete?	Yes 🗹	No \square	Not Present
2.	How was the	sample delivered?	<u>Courier</u>		
Log	<u>In</u>				
_	Coolers are p	present?	Yes	No 🗸	NA 🗌
0.	·		Air samples		
4.	Shipping con	tainer/cooler in good condition?	Yes 🗹	No \square	
5.		Is present on shipping container/cooler? nments for Custody Seals not intact)	Yes	No 🗸	Not Required
6.	Was an atter	mpt made to cool the samples?	Yes	No 🗌	NA 🗸
7.	Were all item	ns received at a temperature of >2°C to 6°C *	Yes 🗌	No 🗆	NA 🗸
8.	Sample(s) in	proper container(s)?	Yes 🗸	No 🗆	
9.	Sufficient sar	mple volume for indicated test(s)?	Yes 🗸	No 🗌	
10.	Are samples	properly preserved?	Yes 🗸	No \square	
11.	Was preserv	ative added to bottles?	Yes	No 🗸	NA 🗌
12	Is there head	Ispace in the VOA vials?	Yes	No 🗌	NA 🗹
		es containers arrive in good condition(unbroken)?	Yes 🗸	No 🗌	
		ork match bottle labels?	Yes 🗸	No 🗌	
15	Are matrices	correctly identified on Chain of Custody?	Yes 🗸	No 🗌	
		at analyses were requested?	Yes 🗸	No 🗌	
_		ling times able to be met?	Yes 🗸	No \square	
C==	aial Han-'	ing (if applicable)			
_		ing (if applicable)	v	\Box	NA 🗖
18.	vvas client no	otified of all discrepancies with this order?	Yes	No L	NA 🗸
	Person	Notified: Date:			
	By Who		eMail Pho	one 🗌 Fax 📗	In Person
	Regardi				
	Client Ir	nstructions:			

Item Information

Original

^{*} Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

	E E E	Air Chain of Custod	Custody Record & Laboratory S	Laboratory Services Agreement
Seattle, WA 98103			Labor	2003383
Analytical Fax: 206-352-7178	Date: 2/16 Project Name: (Page: 1	-	For the follow
Client: Farallon		Q	1,1-DCE; and Vival dilyold	Vinu alivado
Address: 975 5th Ave NW	Location: Sec	Seattle WA	And the state of t	
city, State, Zip: Issural WA 98027	Collected by: 下	Ryan Ostrom	THE THE PARTY OF T	
0	Reports to (PM):	ر ک	Air samples are disposed of one weel otherwise requested.	Air samples are disposed of one week after report is submitted to client unless otherwise requested. OK to Dispose Hold (fees may apply)
Fax: 425-295-0850	Email (PM): JA	SULTING,C	0.5	
	- 1		Analysis	internal
Canister / Flow Sample Date & Sample Type Sample Name Reg Serial # Time (Matrix)*	Pype Container Fill Time /	Initial Field Initial Field Final SC Evacuation Sample Sample 5 Sample 5 Stee (mtorr) ("Hg) ("Hg) VO	VOCs TO15 SCAN LL VOCs TO15 SIM Siloxanes TO15 Sulfur TO15 Sulfur Ext. TO15 APH TO15 Helium Major Gases 3C	Final Pressure ("Hg)
5980-IA1-031920 15421 3/19/20 AN	6L 8 Hr	10mtorr -30.0 5.0 Pressure Pressure Pressure 3/12/:020 3/19/78/6 5/19/76		3
5900-IA3 031920 17238 3/19/20 A/1	6L 8 Hr	10mtorr -30.0 -6.0 1 3/12/2020 3/19/20 3/19/20		1
7 HA 22	Erab S H S	3/12/2020 3/19/2 3/19/26		10
5900-INFLUENT-031920 F32 1055 100 AN	6L Grab	b 3/3/2020 3/19/22 3/19/22		-2
Consider Lyse E.16. Phos Reg Trans	6L Grab	10mtorr Pressure Pressure 3/3/2020 Date Date		
* Matrix Codes: AA = Ambiert Air IA = Indoor Air L = Landfill S = St ** Container Codes: BV = 1 Liter Bottle Vac 6L = 6L Canister 1L = 1L Canister	lsd	ab / Soil Gas CYL = High Pressure Cylinder	Tube TB = Tedlar 8ag	Turn-Around Time:
nter into this Agree is Agreement.	ith Fremont Analyti	cal on behalf of the Client named abov	ve, that I have verified Client's agreement to	o each of the
Relinquished * How Show Date/Time * Bringsished Date/Time	0830	Received Received	3/10/10 147 o	S Day
* 9		**		Same Day (specify)



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Landau Associates Jennifer Wynkoop 130 2nd Ave South

Edmonds, WA 98020

RE: Capital Industries

Work Order Number: 2009385

September 30, 2020

Attention Jennifer Wynkoop:

Fremont Analytical, Inc. received 9 sample(s) on 9/23/2020 for the analyses presented in the following report.

Volatile Organic Compounds-EPA Method TO-15 (SIM)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes Project Manager CC:

Dave Johnson

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Date: 09/30/2020



CLIENT: Landau Associates Work Order Sample Summary

Project: Capital Industries

Work Order: 2009385

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2009385-001	5815N-IA1-20200923	09/23/2020 8:30 AM	09/23/2020 4:54 PM
2009385-002	5815N-IA9-20200923	09/23/2020 8:35 AM	09/23/2020 4:54 PM
2009385-003	5815N-IA8-20200923	09/23/2020 8:37 AM	09/23/2020 4:54 PM
2009385-004	5815N-OA1-20200923	09/23/2020 8:42 AM	09/23/2020 4:54 PM
2009385-005	5815N-Influent-20200923	09/23/2020 9:44 AM	09/23/2020 4:54 PM
2009385-006	5900-IA3-20200923	09/23/2020 7:59 AM	09/23/2020 4:54 PM
2009385-007	5900-IA1-20200923	09/23/2020 8:08 AM	09/23/2020 4:54 PM
2009385-008	5900-OA2-20200923	09/23/2020 8:13 AM	09/23/2020 4:54 PM
2009385-009	5900-Influent-20200923	09/23/2020 10:29 AM	09/23/2020 4:54 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned



Case Narrative

WO#: **2009385**Date: **9/30/2020**

CLIENT: Landau Associates
Project: Capital Industries

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Air samples are reported in ppbv and ug/m3.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Standard temperature and pressure assumes 24.45 = (25C and 1 atm).



Qualifiers & Acronyms

WO#: **2009385**

Date Reported: 9/30/2020

Qualifiers:

- * Flagged value is not within established control limits
- B Analyte detected in the associated Method Blank
- D Dilution was required
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- I Analyte with an internal standard that does not meet established acceptance criteria
- J Analyte detected below Reporting Limit
- N Tentatively Identified Compound (TIC)
- Q Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S Spike recovery outside accepted recovery limits
- ND Not detected at the Reporting Limit
- R High relative percent difference observed

Acronyms:

%Rec - Percent Recovery

CCB - Continued Calibration Blank

CCV - Continued Calibration Verification

DF - Dilution Factor

DUP - Sample Duplicate

HEM - Hexane Extractable Material

ICV - Initial Calibration Verification

LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate

MB or MBLANK - Method Blank

MDL - Method Detection Limit

MS/MSD - Matrix Spike / Matrix Spike Duplicate

PDS - Post Digestion Spike

Ref Val - Reference Value

REP - Sample Replicate

RL - Reporting Limit

RPD - Relative Percent Difference

SD - Serial Dilution

SGT - Silica Gel Treatment

SPK - Spike

Surr - Surrogate



Client: Landau Associates

WorkOrder: 2009385

Project: Capital Industries

 Client Sample ID:
 5815N-IA1-20200923
 Date Sampled:
 9/23/2020

 Lab ID:
 2009385-001A
 Date Received:
 9/23/2020

Analyte	Concen	tration	Reportir	ng Limit	Qual	Method	Date/Analy	st
Volatile Organic Compounds-EP	A Method TO-15							
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	< 0.00900	<0.0357	0.00900	0.0357		EPA-TO-15SIM	09/26/2020	MS
cis-1,2-Dichloroethene	<0.0200	<0.0793	0.0200	0.0793		EPA-TO-15SIM	09/26/2020	MS
Tetrachloroethene (PCE)	0.0752	0.510	0.0500	0.339		EPA-TO-15SIM	09/26/2020	MS
trans-1,2-Dichloroethene	<0.00600	<0.0238	0.00600	0.0238		EPA-TO-15SIM	09/26/2020	MS
Trichloroethene (TCE)	0.305	1.64	0.0170	0.0914		EPA-TO-15SIM	09/26/2020	MS
Vinyl chloride	<0.0850	<0.217	0.0850	0.217		EPA-TO-15SIM	09/26/2020	MS
Surr: 4-Bromofluorobenzene	98.8 %Rec		70-130			EPA-TO-15SIM	09/26/2020	MS



WorkOrder: 2009385

Project: Capital Industries

 Client Sample ID:
 5815N-IA9-20200923
 Date Sampled:
 9/23/2020

 Lab ID:
 2009385-002A
 Date Received:
 9/23/2020

Analyte	Concen	tration	Reportir	ng Limit	Qual	Method	Date/Analy	st
Volatile Organic Compounds-EP	A Method TO-15	S (SIM)						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	<0.00900	< 0.0357	0.00900	0.0357		EPA-TO-15SIM	09/26/2020	MS
cis-1,2-Dichloroethene	<0.0200	< 0.0793	0.0200	0.0793		EPA-TO-15SIM	09/26/2020	MS
Tetrachloroethene (PCE)	< 0.0500	< 0.339	0.0500	0.339		EPA-TO-15SIM	09/26/2020	MS
trans-1,2-Dichloroethene	<0.00600	<0.0238	0.00600	0.0238		EPA-TO-15SIM	09/26/2020	MS
Trichloroethene (TCE)	0.286	1.54	0.0170	0.0914		EPA-TO-15SIM	09/26/2020	MS
Vinyl chloride	<0.0850	<0.217	0.0850	0.217		EPA-TO-15SIM	09/26/2020	MS
Surr: 4-Bromofluorobenzene	98.8 %Rec		70-130			EPA-TO-15SIM	09/26/2020	MS



WorkOrder: 2009385

Project: Capital Industries

 Client Sample ID:
 5815N-IA8-20200923
 Date Sampled:
 9/23/2020

 Lab ID:
 2009385-003A
 Date Received:
 9/23/2020

Analyte	Concen	tration	Reportir	ng Limit	Qual	Method	Date/Analy	st
Volatile Organic Compounds-EP	A Method TO-15	(SIM)						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	<0.00900	<0.0357	0.00900	0.0357		EPA-TO-15SIM	09/26/2020	MS
cis-1,2-Dichloroethene	<0.0200	<0.0793	0.0200	0.0793		EPA-TO-15SIM	09/26/2020	MS
Tetrachloroethene (PCE)	<0.0500	<0.339	0.0500	0.339		EPA-TO-15SIM	09/26/2020	MS
trans-1,2-Dichloroethene	<0.00600	<0.0238	0.00600	0.0238		EPA-TO-15SIM	09/26/2020	MS
Trichloroethene (TCE)	0.256	1.37	0.0170	0.0914		EPA-TO-15SIM	09/26/2020	MS
Vinyl chloride	<0.0850	<0.217	0.0850	0.217		EPA-TO-15SIM	09/26/2020	MS
Surr: 4-Bromofluorobenzene	96.0 %Rec		70-130			EPA-TO-15SIM	09/26/2020	MS



WorkOrder: 2009385

Project: Capital Industries

 Client Sample ID:
 5815N-OA1-20200923
 Date Sampled:
 9/23/2020

 Lab ID:
 2009385-004A
 Date Received:
 9/23/2020

Analyte	Concent	tration	Reportir	ng Limit	Qual	Method	Date/Analy	st
Volatile Organic Compounds-EP	A Method TO-15	(SIM)						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	<0.00900	< 0.0357	0.00900	0.0357		EPA-TO-15SIM	09/26/2020	MS
cis-1,2-Dichloroethene	<0.0200	<0.0793	0.0200	0.0793		EPA-TO-15SIM	09/26/2020	MS
Tetrachloroethene (PCE)	< 0.0500	< 0.339	0.0500	0.339		EPA-TO-15SIM	09/26/2020	MS
trans-1,2-Dichloroethene	<0.00600	<0.0238	0.00600	0.0238		EPA-TO-15SIM	09/26/2020	MS
Trichloroethene (TCE)	< 0.0170	< 0.0914	0.0170	0.0914		EPA-TO-15SIM	09/26/2020	MS
Vinyl chloride	<0.0850	<0.217	0.0850	0.217		EPA-TO-15SIM	09/26/2020	MS
Surr: 4-Bromofluorobenzene	93.2 %Rec		70-130			EPA-TO-15SIM	09/26/2020	MS



WorkOrder: 2009385

Project: Capital Industries

 Client Sample ID:
 5815N-Influent-20200923
 Date Sampled:
 9/23/2020

 Lab ID:
 2009385-005A
 Date Received:
 9/23/2020

Analyte	Concen	tration	Reportir	ng Limit	Qual	Method	Date/Analy	st
Volatile Organic Compounds-EF	PA Method TO-15	5 (SIM)						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	< 0.00900	< 0.0357	0.00900	0.0357		EPA-TO-15SIM	09/28/2020	MS
cis-1,2-Dichloroethene	1.40	5.57	0.0200	0.0793		EPA-TO-15SIM	09/28/2020	MS
Tetrachloroethene (PCE)	13.9	94.6	0.500	3.39		EPA-TO-15SIM	09/28/2020	MS
trans-1,2-Dichloroethene	0.0545	0.216	0.00600	0.0238		EPA-TO-15SIM	09/28/2020	MS
Trichloroethene (TCE)	31.2	168	0.170	0.914		EPA-TO-15SIM	09/28/2020	MS
Vinyl chloride	<0.0850	<0.217	0.0850	0.217		EPA-TO-15SIM	09/28/2020	MS
Surr: 4-Bromofluorobenzene	103 %Rec		70-130			EPA-TO-15SIM	09/28/2020	MS



WorkOrder: 2009385

Project: Capital Industries

 Client Sample ID:
 5900-IA3-20200923
 Date Sampled:
 9/23/2020

 Lab ID:
 2009385-006A
 Date Received:
 9/23/2020

Analyte	Concen	tration	Reportir	ng Limit	Qual	Method	Date/Analy	st
Volatile Organic Compounds-EF	PA Method TO-15	<u>(SIM)</u>						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	< 0.00900	<0.0357	0.00900	0.0357		EPA-TO-15SIM	09/28/2020	MS
cis-1,2-Dichloroethene	< 0.0200	<0.0793	0.0200	0.0793		EPA-TO-15SIM	09/28/2020	MS
Tetrachloroethene (PCE)	< 0.0500	< 0.339	0.0500	0.339		EPA-TO-15SIM	09/28/2020	MS
trans-1,2-Dichloroethene	<0.00600	<0.0238	0.00600	0.0238		EPA-TO-15SIM	09/28/2020	MS
Trichloroethene (TCE)	<0.0170	<0.0914	0.0170	0.0914		EPA-TO-15SIM	09/28/2020	MS
Vinyl chloride	<0.0850	<0.217	0.0850	0.217		EPA-TO-15SIM	09/28/2020	MS
Surr: 4-Bromofluorobenzene	97.0 %Rec		70-130			EPA-TO-15SIM	09/28/2020	MS



WorkOrder: 2009385

Project: Capital Industries

 Client Sample ID:
 5900-IA1-20200923
 Date Sampled:
 9/23/2020

 Lab ID:
 2009385-007A
 Date Received:
 9/23/2020

Analyte	Concen	tration	Reportir	ng Limit	Qual	Method	Date/Analy	rst
Volatile Organic Compounds-EP	'A Method TO-15	<u>(SIM)</u>						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	<0.00900	<0.0357	0.00900	0.0357		EPA-TO-15SIM	09/28/2020	MS
cis-1,2-Dichloroethene	<0.0200	<0.0793	0.0200	0.0793		EPA-TO-15SIM	09/28/2020	MS
Tetrachloroethene (PCE)	< 0.0500	< 0.339	0.0500	0.339		EPA-TO-15SIM	09/28/2020	MS
trans-1,2-Dichloroethene	<0.00600	<0.0238	0.00600	0.0238		EPA-TO-15SIM	09/28/2020	MS
Trichloroethene (TCE)	<0.0170	<0.0914	0.0170	0.0914		EPA-TO-15SIM	09/28/2020	MS
Vinyl chloride	<0.0850	<0.217	0.0850	0.217		EPA-TO-15SIM	09/28/2020	MS
Surr: 4-Bromofluorobenzene	93.5 %Rec		70-130			EPA-TO-15SIM	09/28/2020	MS



WorkOrder: 2009385

Project: Capital Industries

 Client Sample ID:
 5900-OA2-20200923
 Date Sampled:
 9/23/2020

 Lab ID:
 2009385-008A
 Date Received:
 9/23/2020

Analyte	Concen	tration	Reportir	ng Limit	Qual	Method	Date/Analy	st
Volatile Organic Compounds-EF	PA Method TO-15	(SIM)						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	<0.00900	<0.0357	0.00900	0.0357		EPA-TO-15SIM	09/28/2020	MS
cis-1,2-Dichloroethene	< 0.0200	<0.0793	0.0200	0.0793		EPA-TO-15SIM	09/28/2020	MS
Tetrachloroethene (PCE)	0.509	3.45	0.0500	0.339		EPA-TO-15SIM	09/28/2020	MS
trans-1,2-Dichloroethene	< 0.00600	<0.0238	0.00600	0.0238		EPA-TO-15SIM	09/28/2020	MS
Trichloroethene (TCE)	<0.0170	<0.0914	0.0170	0.0914		EPA-TO-15SIM	09/28/2020	MS
Vinyl chloride	<0.0850	<0.217	0.0850	0.217		EPA-TO-15SIM	09/28/2020	MS
Surr: 4-Bromofluorobenzene	93.9 %Rec		70-130			EPA-TO-15SIM	09/28/2020	MS



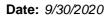
WorkOrder: 2009385

Project: Capital Industries

 Client Sample ID:
 5900-Influent-20200923
 Date Sampled:
 9/23/2020

 Lab ID:
 2009385-009A
 Date Received:
 9/23/2020

Analyte	Concen	tration	Reportir	ng Limit	Qual	Method	Date/Analy	st
Volatile Organic Compounds-EP	A Method TO-15	<u>5 (SIM)</u>						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	<0.00900	< 0.0357	0.00900	0.0357		EPA-TO-15SIM	09/28/2020	MS
cis-1,2-Dichloroethene	<0.0200	<0.0793	0.0200	0.0793		EPA-TO-15SIM	09/28/2020	MS
Tetrachloroethene (PCE)	0.208	1.41	0.0500	0.339		EPA-TO-15SIM	09/28/2020	MS
trans-1,2-Dichloroethene	<0.00600	<0.0238	0.00600	0.0238		EPA-TO-15SIM	09/28/2020	MS
Trichloroethene (TCE)	0.0952	0.511	0.0170	0.0914		EPA-TO-15SIM	09/28/2020	MS
Vinyl chloride	<0.0850	<0.217	0.0850	0.217		EPA-TO-15SIM	09/28/2020	MS
Surr: 4-Bromofluorobenzene	101 %Rec		70-130			EPA-TO-15SIM	09/28/2020	MS





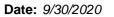
Work Order: 2009385

QC SUMMARY REPORT

CLIENT: Landau Associates

Project: Capital Indu	ustries				V	olatile Org	anic C	ompounds-	EPA Meth	od TO-1	5 (SIN
Sample ID: LCS-R62130	SampType: LCS			Units: ppbv		Prep Date:	9/26/20	20	RunNo: 62 1	30	
Client ID: LCSW	Batch ID: R62130					Analysis Date:	9/26/20	20	SeqNo: 12 4	6345	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.87	0.0850	2.000	0	93.5	70	130				
1,1-Dichloroethene (DCE)	1.92	0.00900	2.000	0	95.9	70	130				
trans-1,2-Dichloroethene	2.00	0.00600	2.000	0	100	70	130				
cis-1,2-Dichloroethene	2.00	0.0200	2.000	0	100	70	130				
Trichloroethene (TCE)	1.96	0.0170	2.000	0	98.1	70	130				
Tetrachloroethene (PCE)	1.96	0.0500	2.000	0	98.1	70	130				
Surr: 4-Bromofluorobenzene	4.02		4.000		101	70	130				
Sample ID: MB-R62130	SampType: MBLK			Units: ppbv		Prep Date:	9/26/20	20	RunNo: 62 1	30	
Client ID: MBLKW	Batch ID: R62130					Analysis Date:	9/26/20	20	SeqNo: 124	6346	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.0850									
1,1-Dichloroethene (DCE)	ND	0.00900									
trans-1,2-Dichloroethene	ND	0.00600									
cis-1,2-Dichloroethene	ND	0.0200									
Trichloroethene (TCE)	ND	0.0170									
Tetrachloroethene (PCE)	ND	0.0500									
Surr: 4-Bromofluorobenzene	3.69		4.000		92.3	70	130				
Sample ID: 2009274-001AREP	SampType: REP			Units: ppbv		Prep Date:	9/26/20	20	RunNo: 62 1	30	
Client ID: BATCH	Batch ID: R62130					Analysis Date:	9/26/20	20	SeqNo: 124	6350	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.0850						0		25	
1,1-Dichloroethene (DCE)	ND	0.00900						0		25	
trans-1,2-Dichloroethene	0.679	0.00600						0.6814	0.370	25	
cis-1,2-Dichloroethene	3.15	0.0200						3.140	0.329	25	
Trichloroethene (TCE)	ND	0.0170						0		25	

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Work Order: 2009385

QC SUMMARY REPORT

CLIENT: Landau Associates

Volatile Organic Compounds-EPA Method TO-15 (SIM

Project: Capital Indu	ustries				V	olatile Org	ganic Co	ompounds.	·EPA Meth	od TO-1	5 (SIM)
Sample ID: 2009274-001AREP	SampType: REP			Units: ppbv		Prep Date	9/26/20	20	RunNo: 621	30	
Client ID: BATCH	Batch ID: R62130					Analysis Date	9/26/20	20	SeqNo: 12 4	16350	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene (PCE)	0.305	0.0500						0.3142	2.85	25	
Surr: 4-Bromofluorobenzene	4.21		4.000		105	70	130		0		
Sample ID: LCS-R62218	SampType: LCS			Units: ppbv		Prep Date	e: 9/28/20	20	RunNo: 622	218	
Client ID: LCSW	Batch ID: R62218					Analysis Date	e: 9/28/20	20	SeqNo: 12 4	8180	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.90	0.0850	2.000	0	95.2	70	130				
1,1-Dichloroethene (DCE)	1.92	0.00900	2.000	0	96.2	70	130				
trans-1,2-Dichloroethene	1.97	0.00600	2.000	0	98.3	70	130				
cis-1,2-Dichloroethene	1.97	0.0200	2.000	0	98.3	70	130				
Trichloroethene (TCE)	1.94	0.0170	2.000	0	96.9	70	130				
Tetrachloroethene (PCE)	1.94	0.0500	2.000	0	97.0	70	130				
Surr: 4-Bromofluorobenzene	3.97		4.000		99.3	70	130				
Sample ID: MB-R62218	SampType: MBLK			Units: ppbv		Prep Date	e: 9/28/20	20	RunNo: 622	218	
Client ID: MBLKW	Batch ID: R62218					Analysis Date	e: 9/28/20	20	SeqNo: 12 4	8181	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.0850									
1,1-Dichloroethene (DCE)	ND	0.00900									
trans-1,2-Dichloroethene	ND	0.00600									
cis-1,2-Dichloroethene	ND	0.0200									
Trichloroethene (TCE)	ND	0.0170									
Tetrachloroethene (PCE)	ND	0.0500									
Surr: 4-Bromofluorobenzene	3.73		4.000		93.3	70	130				

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Date: 9/30/2020



Work Order: 2009385

QC SUMMARY REPORT

CLIENT: Landau Associates
Project: Capital Industries

Volatile Organic Compounds-EPA Method TO-15 (SIM)

Sample ID: 2009385-005AREP	SampType	REP			Units: ppbv		Prep Dat	e: 9/28/2 0)20	RunNo: 622	218	
Client ID: 5815N-Influent-2020092	Batch ID:	R62218					Analysis Dat	e: 9/28/2 0)20	SeqNo: 12 4	18185	
Analyte	F	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride		ND	0.0850						0		25	
1,1-Dichloroethene (DCE)		ND	0.00900						0		25	
trans-1,2-Dichloroethene	0	.0543	0.00600						0.05448	0.294	25	
cis-1,2-Dichloroethene		1.38	0.0200						1.405	2.01	25	
Trichloroethene (TCE)		43.1	0.0170						45.14	4.72	25	E
Tetrachloroethene (PCE)		18.5	0.0500						20.76	11.4	25	
Surr: 4-Bromofluorobenzene		3.95		4.000		98.8	70	130		0		

NOTES:

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E - Estimated value. The amount exceeds the linear working range of the instrument.



Sample Log-In Check List

Client Name: LA	Work Order Numb	er: 2009385	
Logged by: Carissa True	Date Received:	9/23/2020	4:54:00 PM
Chain of Custody			
1. Is Chain of Custody complete?	Yes 🗸	No 🗌	Not Present
2. How was the sample delivered?	Client		
<u>Log In</u>			
3. Coolers are present?	Yes	No 🗸	NA \square
	<u>Air samples</u>		
4. Shipping container/cooler in good condition?	Yes 🗹	No \square	
Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact)	Yes	No \square	Not Present ✓
6. Was an attempt made to cool the samples?	Yes	No 🗌	NA 🗹
7. Were all items received at a temperature of >2°C to 6°C *	Yes	No 🗆	NA 🗹
8. Sample(s) in proper container(s)?	Yes 🗹	No 🗆	
9. Sufficient sample volume for indicated test(s)?	Yes 🗸	No \square	
10. Are samples properly preserved?	Yes 🗹	No \square	
11. Was preservative added to bottles?	Yes	No 🗸	NA 🗆
12. Is there headspace in the VOA vials?	Yes	No 🗌	NA 🗸
13. Did all samples containers arrive in good condition(unbroken)?	Yes 🗸	No \square	
14. Does paperwork match bottle labels?	Yes 🗹	No 🗌	
15. Are matrices correctly identified on Chain of Custody?	Yes 🗸	No 🗌	
16. Is it clear what analyses were requested?	Yes 🗸	No \square	
17. Were all holding times able to be met?	Yes 🗸	No 🗌	
Special Handling (if applicable)			
18. Was client notified of all discrepancies with this order?	Yes	No 🗌	NA 🗹
Person Notified: Date	:		
By Whom: Via:	eMail Pho	one Fax	In Person
Regarding:			
Client Instructions:			

19. Additional remarks:

Item Information

^{*} Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Point Name Da Jeff bar (Monnagh	** Matrix Codes: AA = Ambient Air 1A = Indoor Air 'S = Subslab / Soil Gas SVE = SVE (= Landfill D = Digester ** Container Codes: BV = 1 Lifer Bottle Vac 6L = 6L Carister 1L = 1L Carister CVL = Bigh Pressure Cylinder E = Filter S = Scribent Tube 7B = Tedlar Bag I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the Front and backside of this Agreement.	5815N-INFLLENT- 4694 S IL SMA	5815N-0A1-20200723 FB-21 AA 61 5NE	5815N-IAS-26200723 17236 IA 61 8MR	5815N-IA9-2620923 13973 IA 61 8 WK	58:5N-IAI-16160708 17635 IA 6L SINE	Canetar / Flow Ball Sample Type Container Time / Flow Senal # (Matrix) * Type ** Rate		City, State, Zip: TALOMA, WA 98402 Telephone: 753-284-4876	Address: 7167 j CSt.	client: Landaux Associated	Amalymean	3600 Fremont Ave N.
OuterTrane Recovered Stillershivery Curky	SVE = SVE (= tandfill D = Digester CVL = High Pressure Cylinder E = Filter S = Surpent Tube TB = Tedlar Bag It Analytical on behalf of the Chent named above, that I have verified	SMRAB 944 - 30.00 - 412420 X	3/12 - 30.0 9/13/12 -1) X	9/13/20 -29.5 9/13/20 -8.5 X	835 -30.0 4123/2 -9.5 X	870 0.8- 01810 0.PG- 0181P	Field Initial Sample Start Pressure Sample End Pressure Sample End Pressure Vocs To15 SCAN UVOCS TO15 SINE VOCS	Email (PM): Supropose CandaMn. com	Collected by Jesikes Cavanaugh. Jennifek wyn perpidave thrown he samples are disposed of one week lifter report is submitted to elient unless		Project No: 1993001,010,011	03 90 Date: 9/27/76 Page: 1 of: 1 78 Project Name: (00:16)	Air Chain of Custody Record &
Date/Time Date/Time	Turn: Around Time: Astandard Next Day rified Client's agreement 3 Day Same Day 1 2 Day 1 1000000	6	-12	0-		-10	Sulfur Est, 1015 APH TO LS Helium Major Gases 3C	OCJUTHIONE UNDERWINE, COM. 3-HOLD (TREES MAY ADDAY)	Air samples are disposed of one week after report is submitted to client unless.	chromode; pce; Dec TCE	ans	Special Remarks * on up another for the 18	& Laboratory Services Agreement

	Print Rome (W) (W 52)			River out	16.20	9/73/20 DAM/TEMA		mans	Jesijkuh (avanaug	Jesika	Solinguation (Signature)
Same Day	XStandard 3.Day 2.Day	Tube TB = Ted)ar Bog	S = Sorbent To	f the Client	sure Cylinde	CYL = High Pressure Cylinder Analytical on behalf of Batte/Tens	It of Conster at with Fremont ement.	II = II ement wil	in = 61. Comission into this Agres side of this A	tic Vac Ri = to enter into and backsid	** Container Codes: By a Litter Bottle Vac. 61 = 61 Container 11 = 11 Cinister Cyl. = High Pressure Cylinder F = Filter 5 = Sorbent Tube. TB = Testian Rog. I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement. Belowed Significant Represent Superiors Container Cylinder F = Filter 5 = Sorbent Tube. TB = Testian Rog. Pent Name Pent Name Pent Name Pent Name Pent Name
91,0	Turn Around Time			DeDiperter	Landi	405 - 405 - 405 - 405		C Carella / Col Care		NA PARAMETER AND	1
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ò		×	5.4	-300 9/23/10 -7.5		808		6	AHA RA	17648 TA	5900-IAI-20200723
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Fina: Pressuro (°Hg)	Sulfur Ext. TO15 APPLITO15 Helium Major Gases 3C Commingents	VOES TOTS SEAVED WOCK TOTS SIM SIRbeares TOTS Sulfar TOTS	VOEL TO 15 SCAN	Sample End Date & Time	Field facility Sample Pressure (F 4g)	Sample Stari Date & Tane	Expected Fill Trate / Flow Rate	Type ***	* (Marro) *	Construct flow Reg Sample Type (Matrix) *	Sample Name
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Agreement	& Laboratory Services Agre	Record	Air Chain of Custody	ain of (Air Ch		3500 Framont Ave N	3500 Fre	þ		